EXHIBIT C

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Tomes et al.

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(54) CATHETER TRAY, PACKAGING SYSTEM, INSTRUCTION INSERT, AND ASSOCIATED METHODS

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 - (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 459 days.

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- (51) Int. Cl.

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(Continued)

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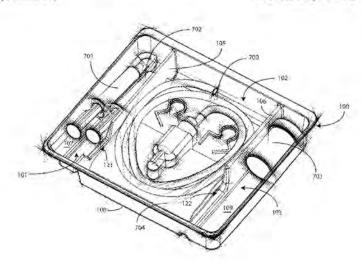
JP-2002068309-A Machine translation Oct. 17, 2022.* (Continued)

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(57) ABSTRACT

A tray (100) for accommodating a coiled medical device, such as a catheter assembly (700), includes a first compartment (101), a second compartment (102), and a third compartment (103). The catheter assembly (700) and devices associated with a catheterization procedure, such as syringes (701,702) containing sterile water and lubricating jelly and a specimen container (703) can be disposed within the tray. Printed instructions (1001) can be included with the tray (100). One or more layers of wrap material (2200) can be folded about the tray (100) to enclose the tray (100) and other items, such as an additional layer of wrap material (2701), packaged liquid hand sanitizer (2401), and packaged gloves (2402). When a health care services provider (3101) unfolds the wrap material, the same can be used to create a sterile field beneath a patient (3201).

20 Claims, 27 Drawing Sheets



Page 2

Related U.S. Application Data

continuation of application No. 14/165,044, filed on Jan. 27, 2014, now Pat. No. 9,693,756, which is a continuation of application No. 13/155,053, filed on Jun. 7, 2011, now Pat. No. 8,678,190, and a continuation-in-part of application No. 12/495,148, filed on Jun. 30, 2009, now Pat. No. 8,631,935, and a continuation-in-part of application No. 12/647,515, filed on Dec. 27, 2009, now abandoned, and a continuation-in-part of application No. 13/153,265, filed on Jun. 3, 2011, now Pat. No. 9,795,761, and a continuation-in-part of application No. 13/153,300, filed on Jun. 3, 2011, now abandoned.

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See application file for complete search history.

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Page 6

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Page 7

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Page 8

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Page 10

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Page 12

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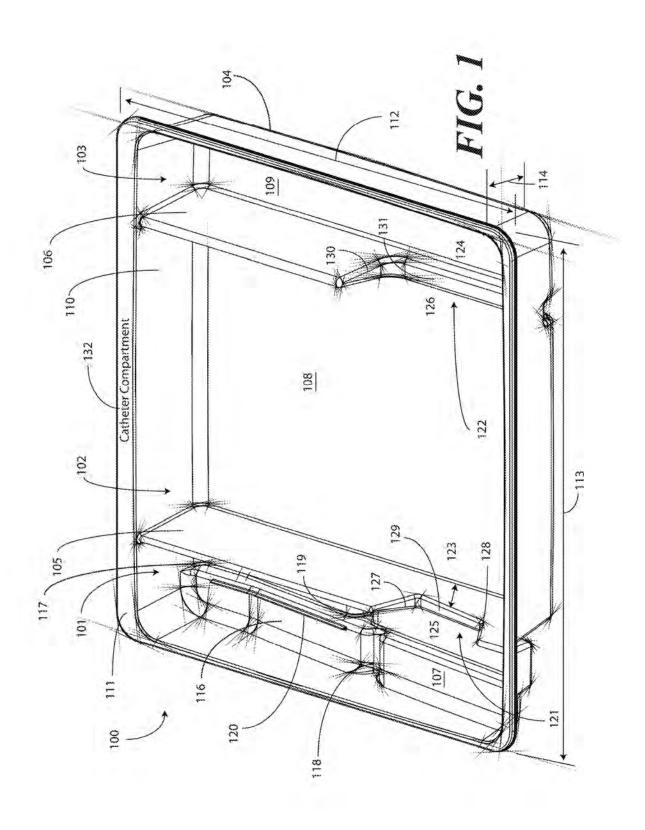
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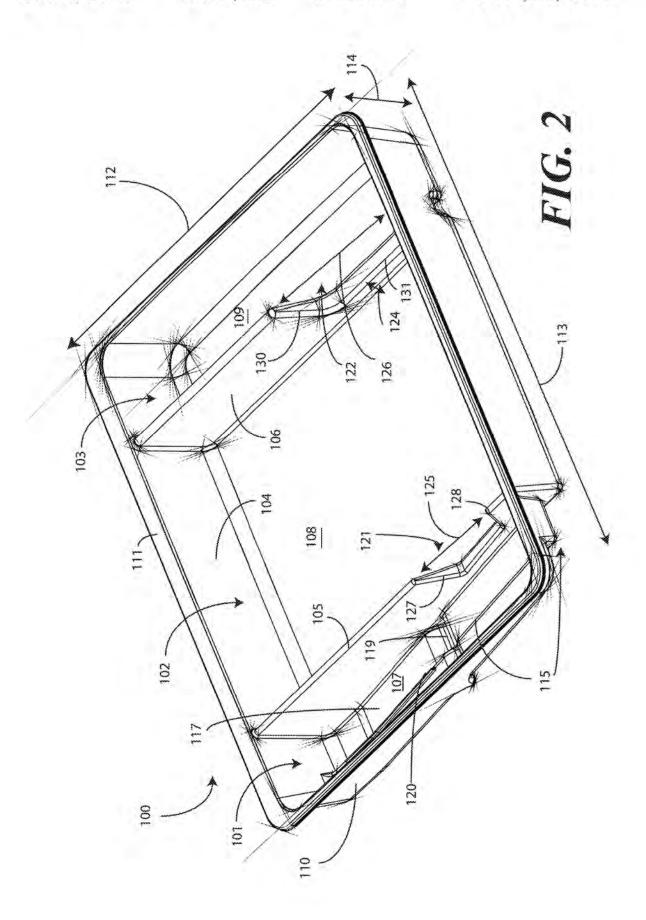
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U.S. Patent Jun. 27, 2023 Sheet 1 of 27 US 11,684,347 B2

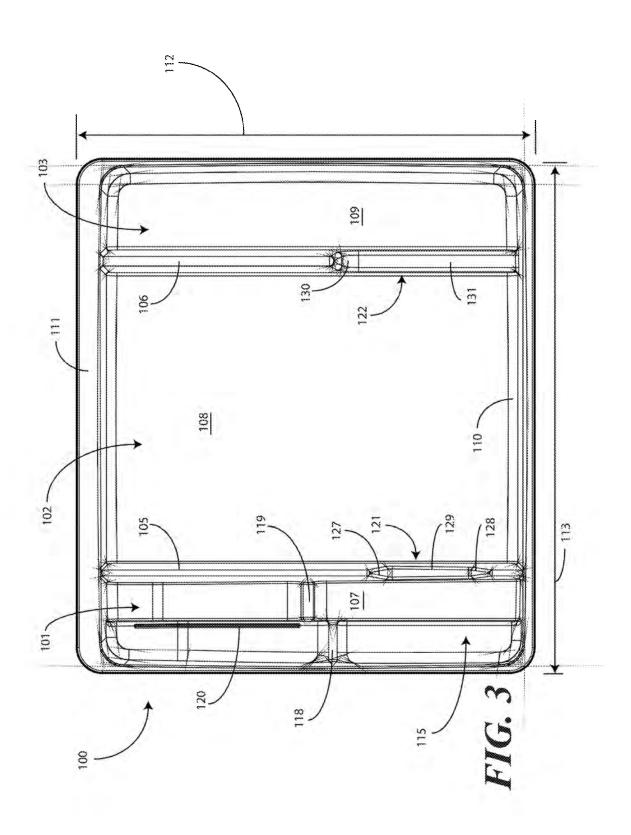


Jun. 27, 2023 Sheet 2 of 27



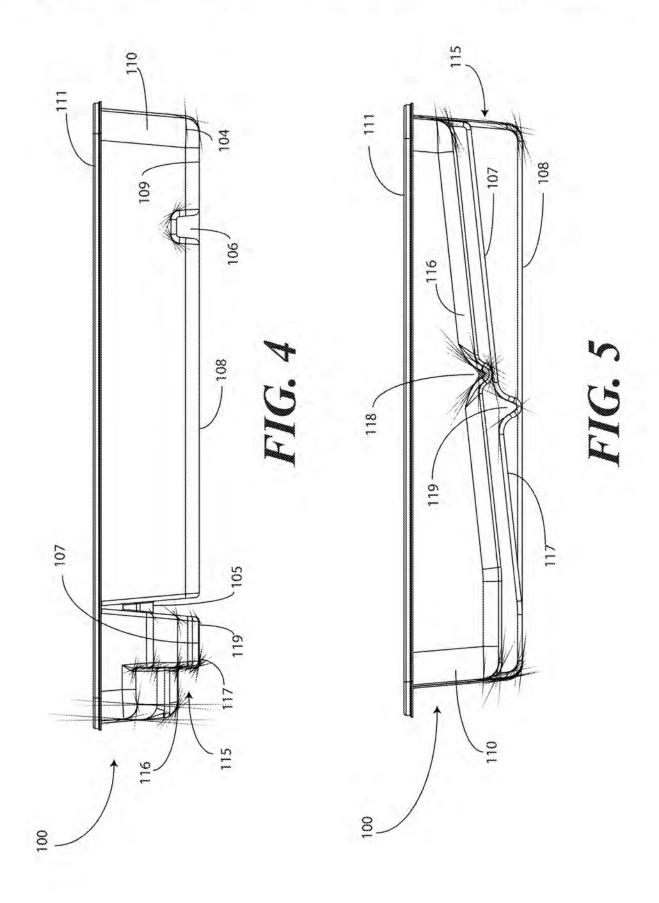
Jun. 27, 2023

Sheet 3 of 27



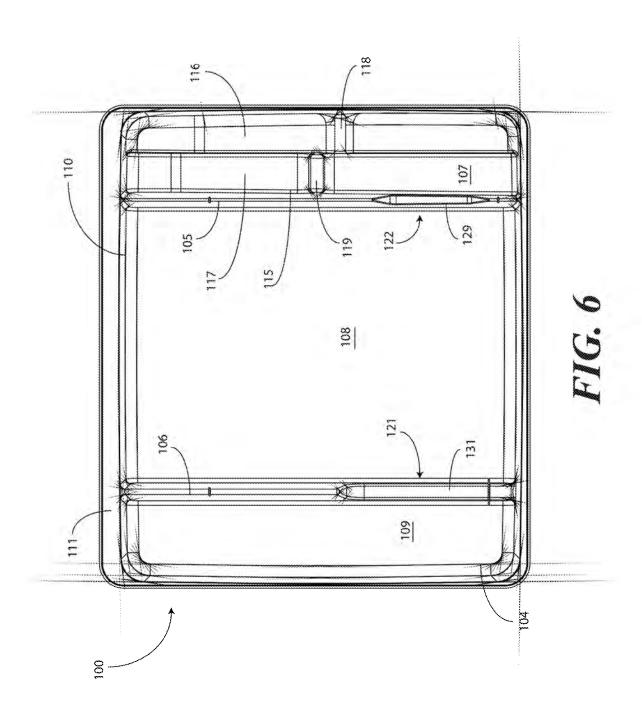
Jun. 27, 2023

Sheet 4 of 27

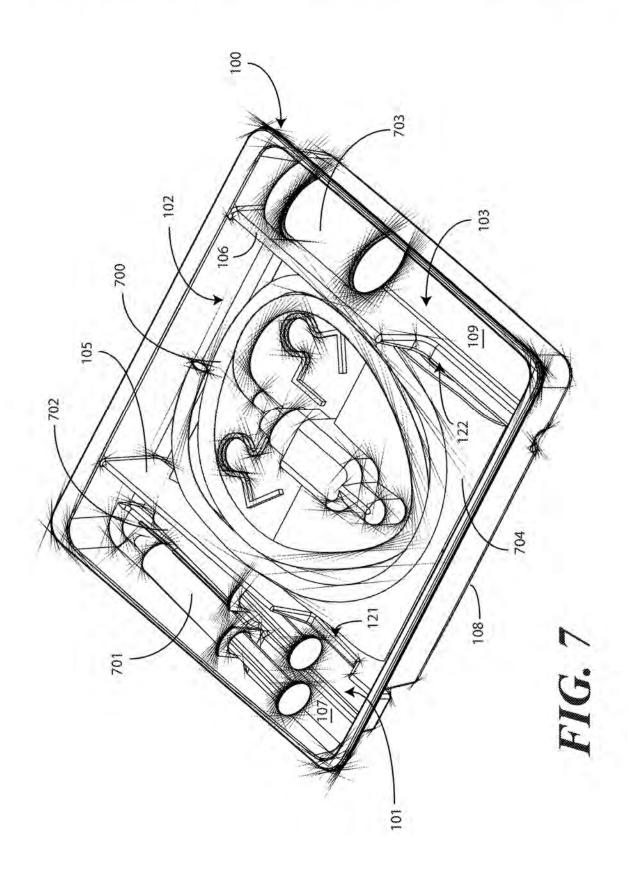


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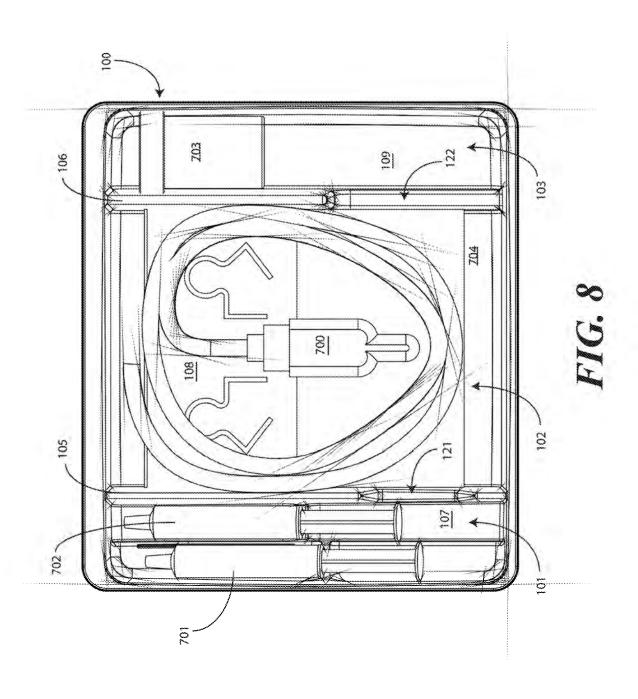
Sheet 5 of 27



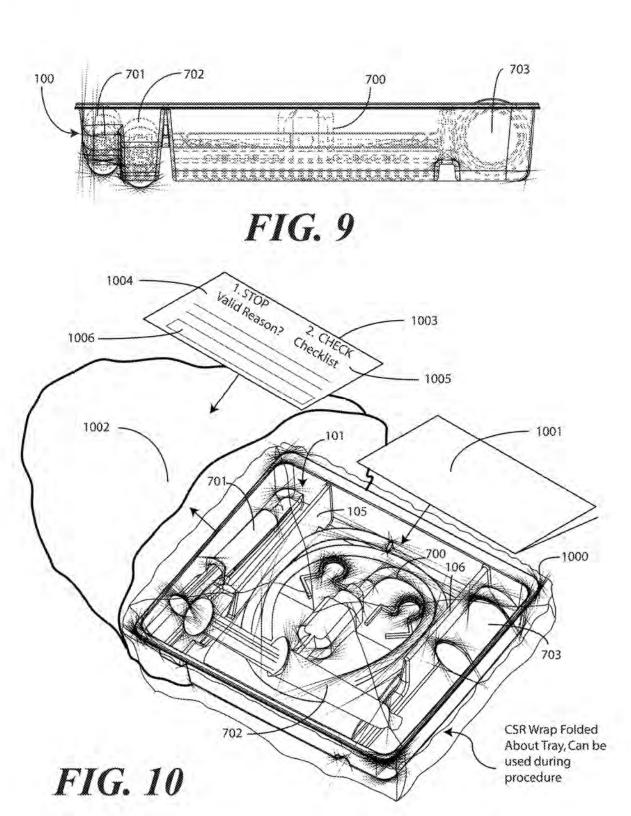
U.S. Patent Jun. 27, 2023 Sheet 6 of 27 US 11,684,347 B2

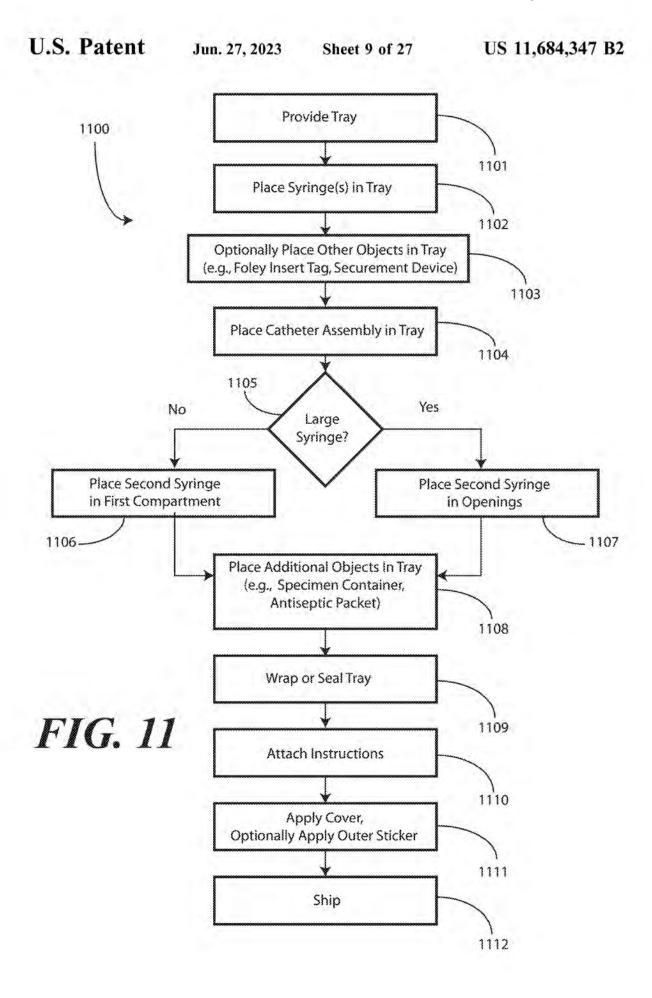


Jun. 27, 2023 Sheet 7 of 27



Jun. 27, 2023 Sheet 8 of 27





U.S. Patent

Jun. 27, 2023

Sheet 10 of 27

US 11,684,347 B2

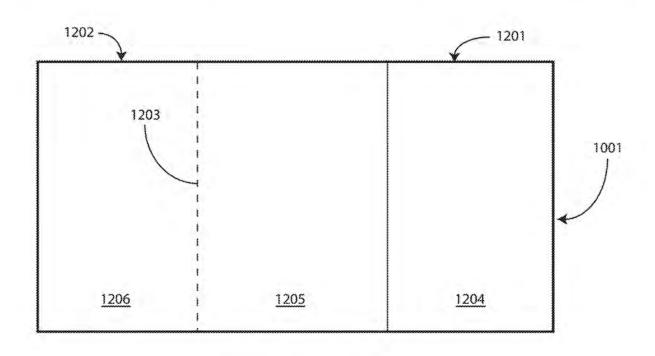


FIG. 12

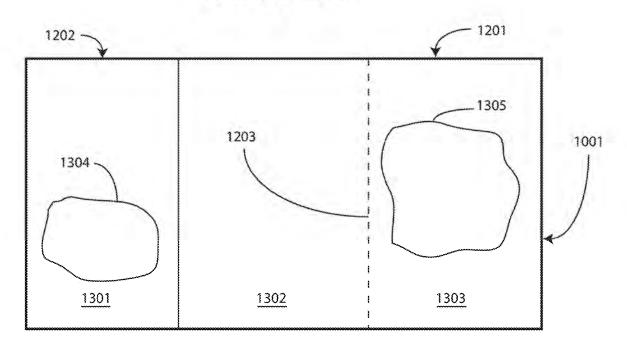


FIG. 13

Jun. 27, 2023

Sheet 11 of 27

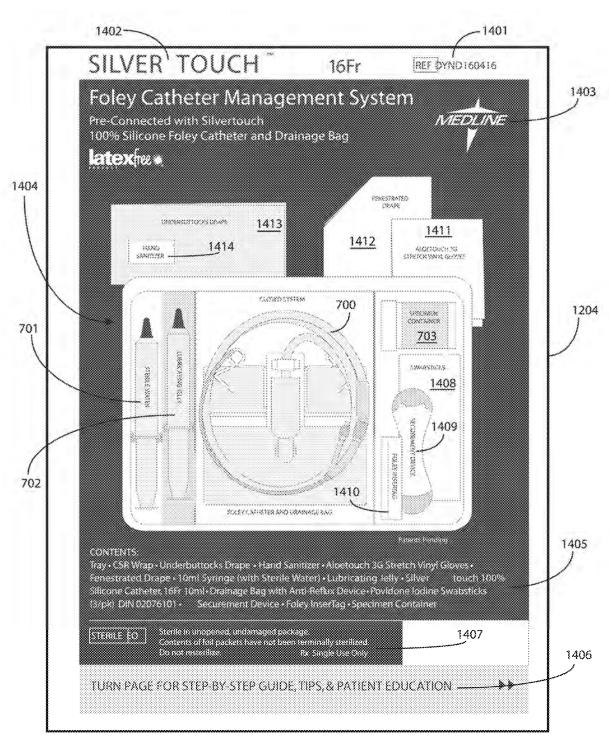


FIG. 14

Jun. 27, 2023

Sheet 12 of 27

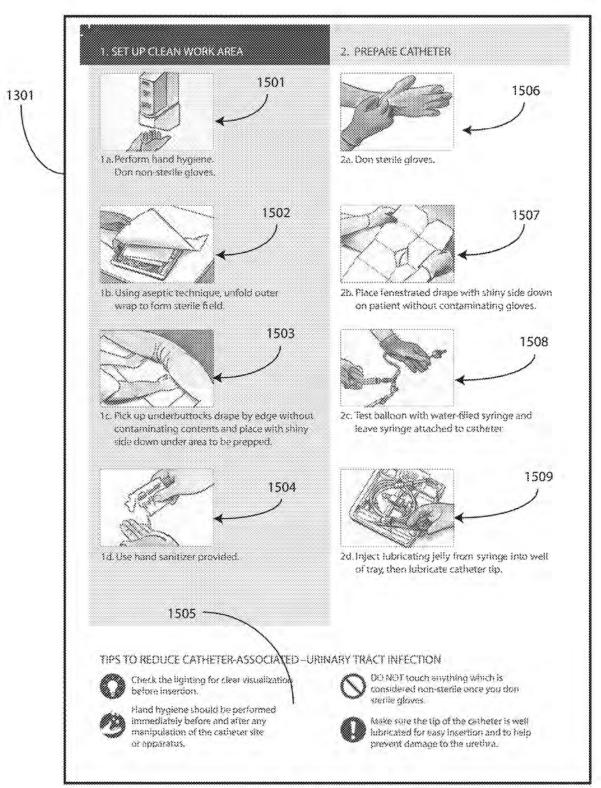
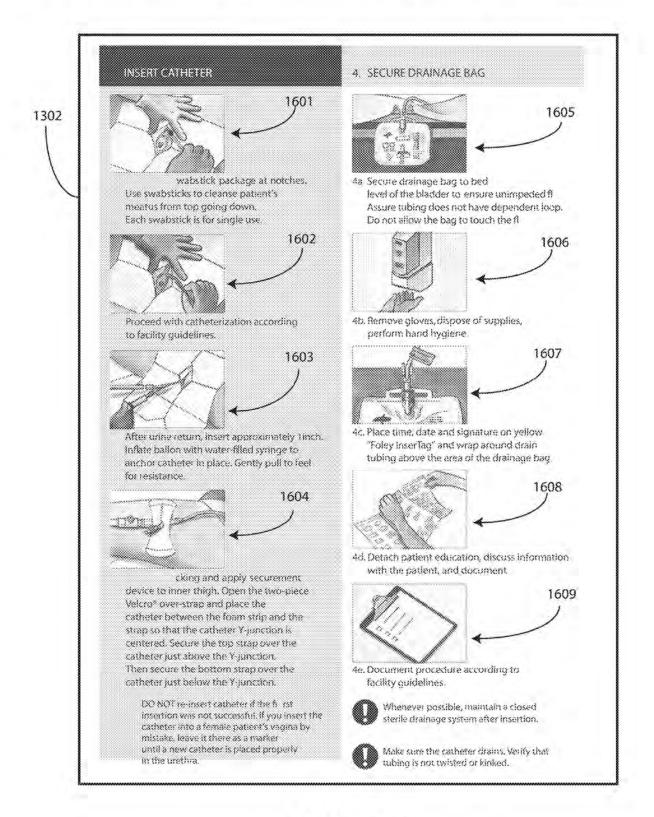


FIG. 15

Jun. 27, 2023

Sheet 13 of 27



Jun. 27, 2023

Sheet 14 of 27

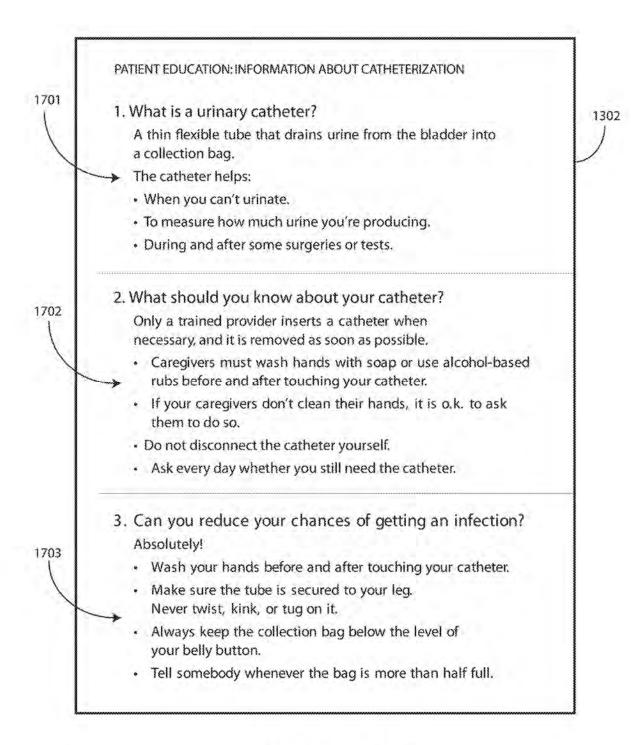
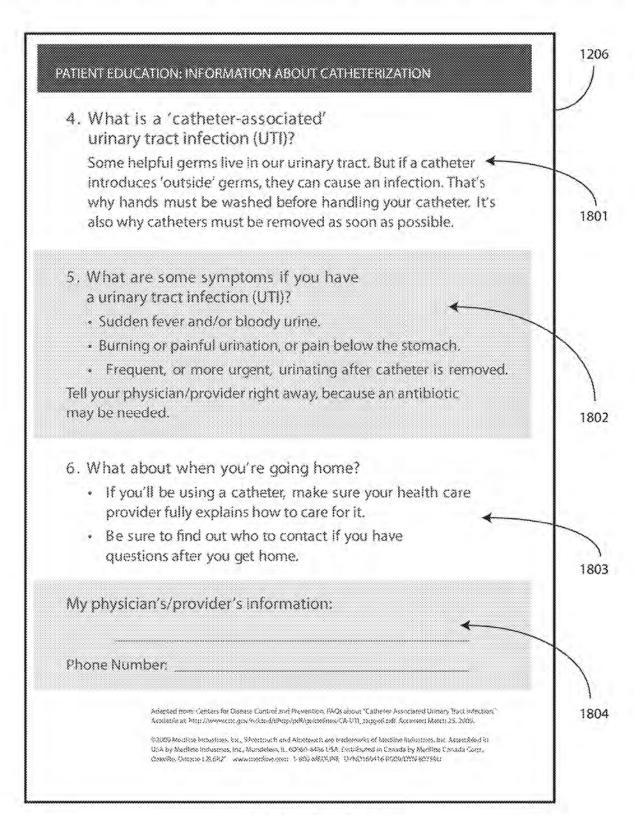


FIG. 17

Jun. 27, 2023

Sheet 15 of 27



Jun. 27, 2023

Sheet 16 of 27

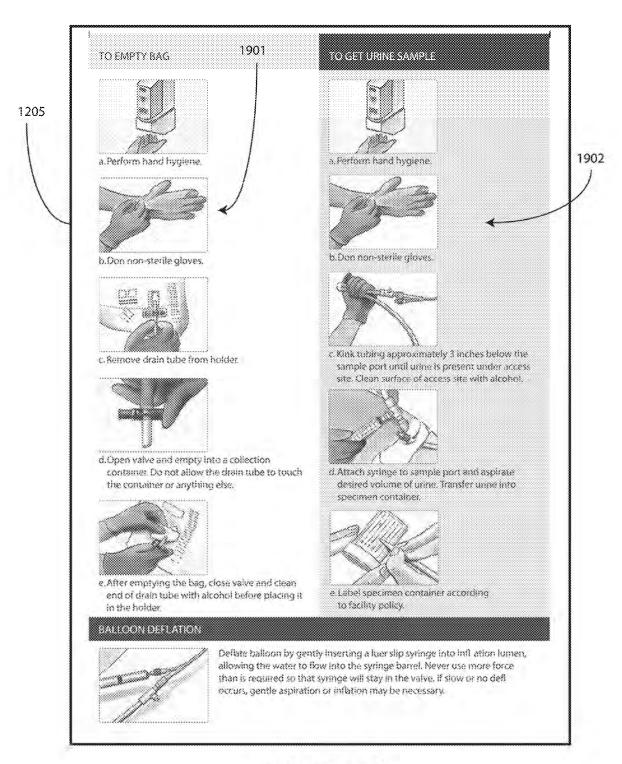
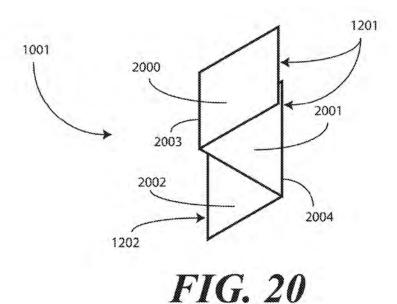


FIG. 19

Jun. 27, 2023

Sheet 17 of 27



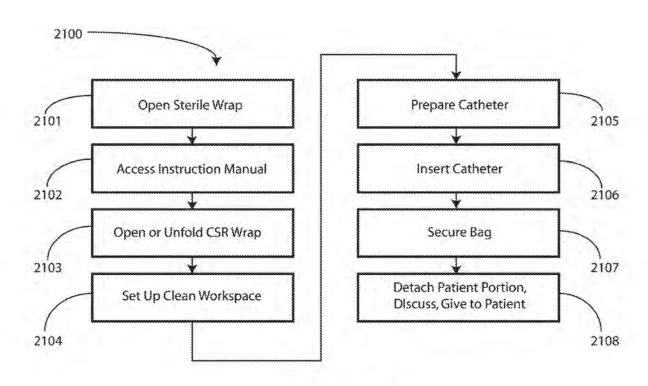
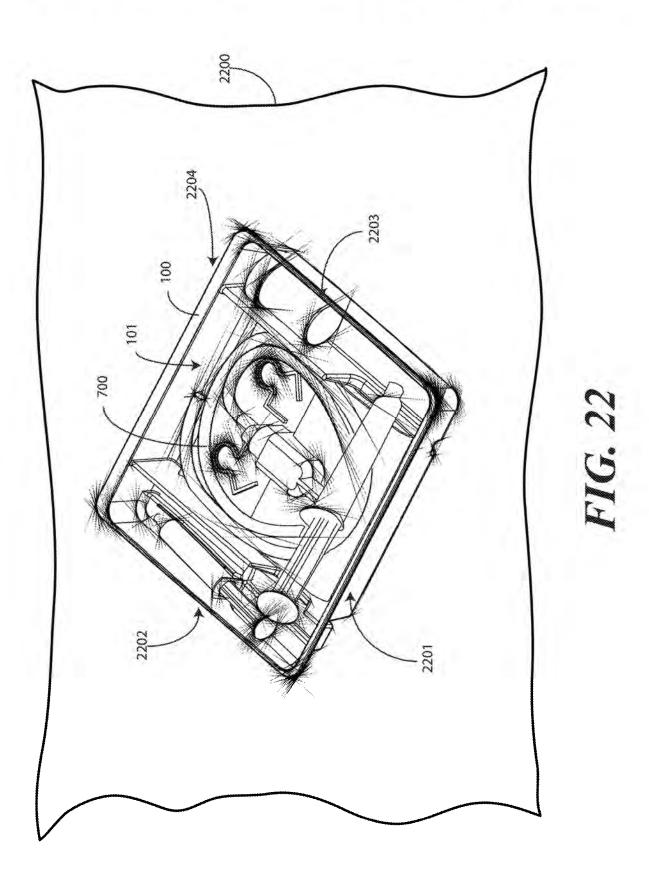
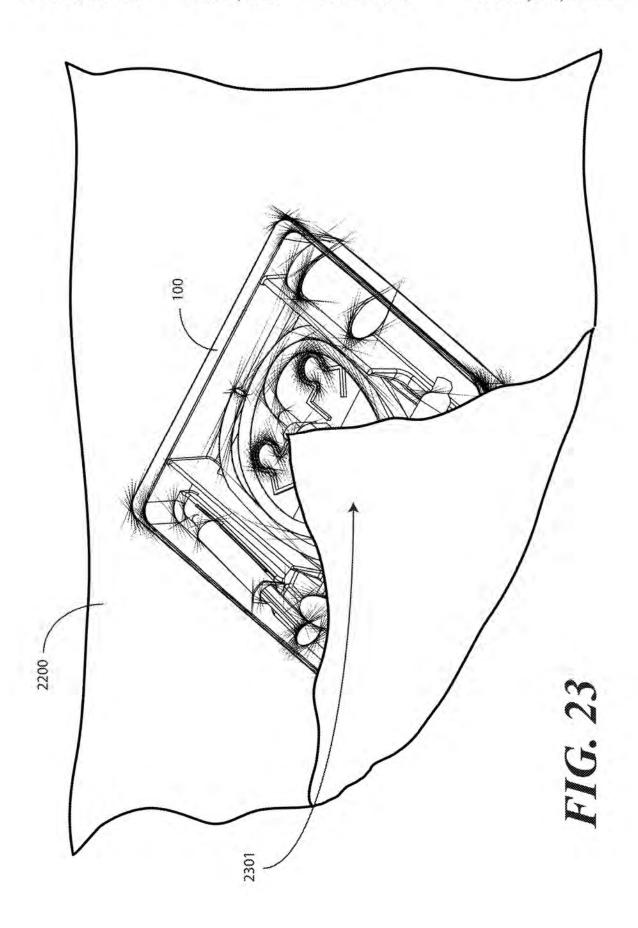


FIG. 21

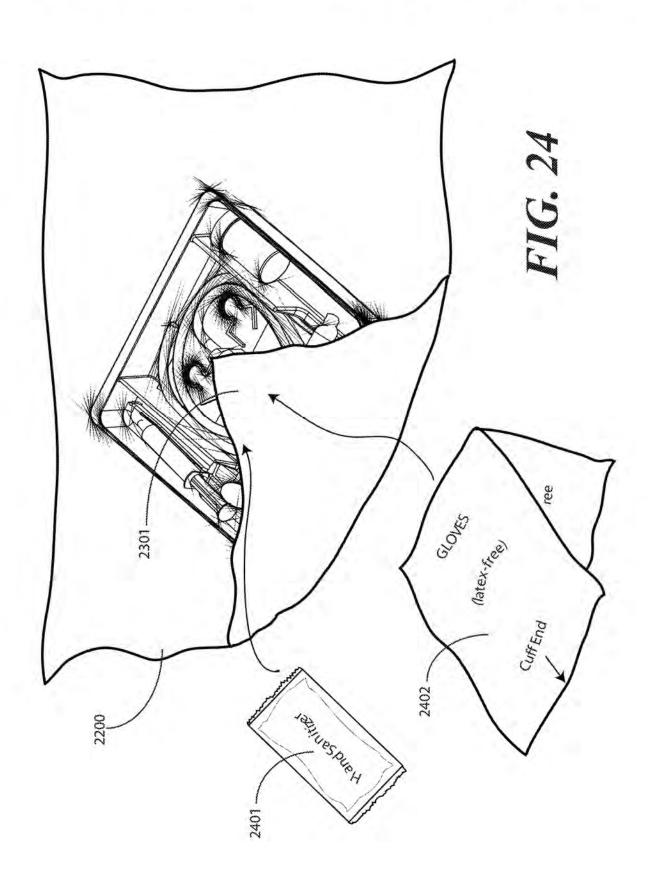
U.S. Patent Jun. 27, 2023 Sheet 18 of 27 US 11,684,347 B2



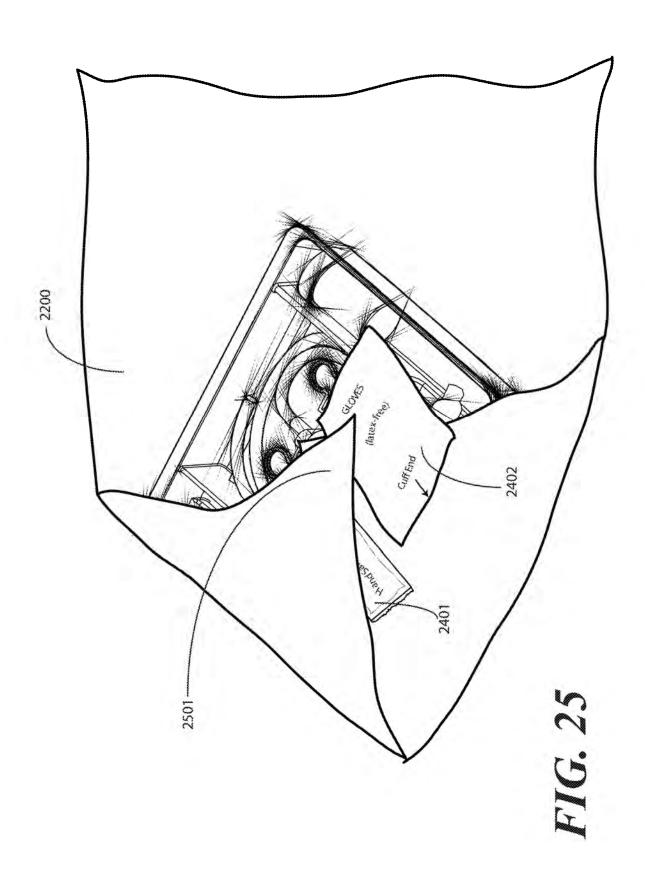
U.S. Patent Jun. 27, 2023 Sheet 19 of 27 US 11,684,347 B2



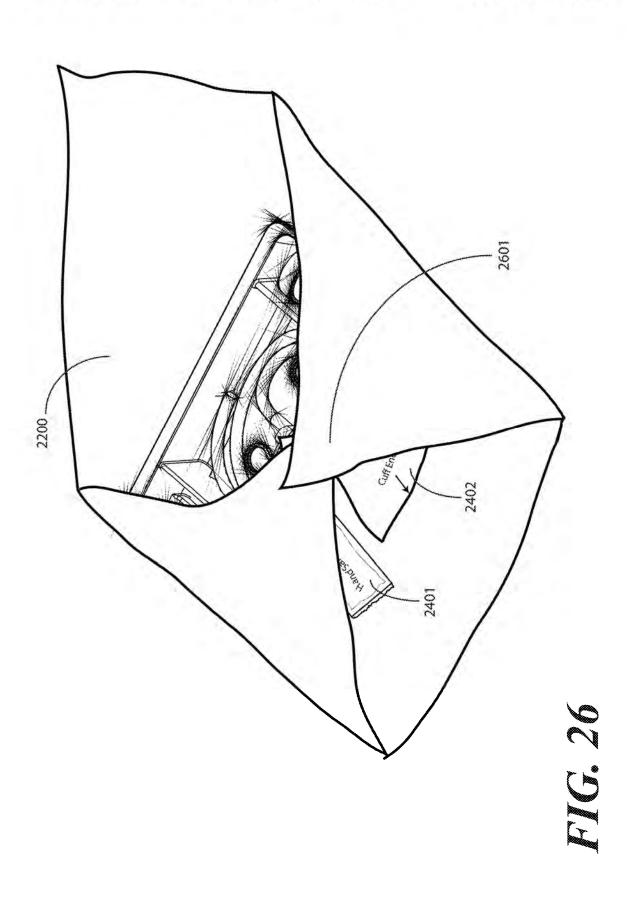
U.S. Patent Jun. 27, 2023 Sheet 20 of 27 US 11,684,347 B2



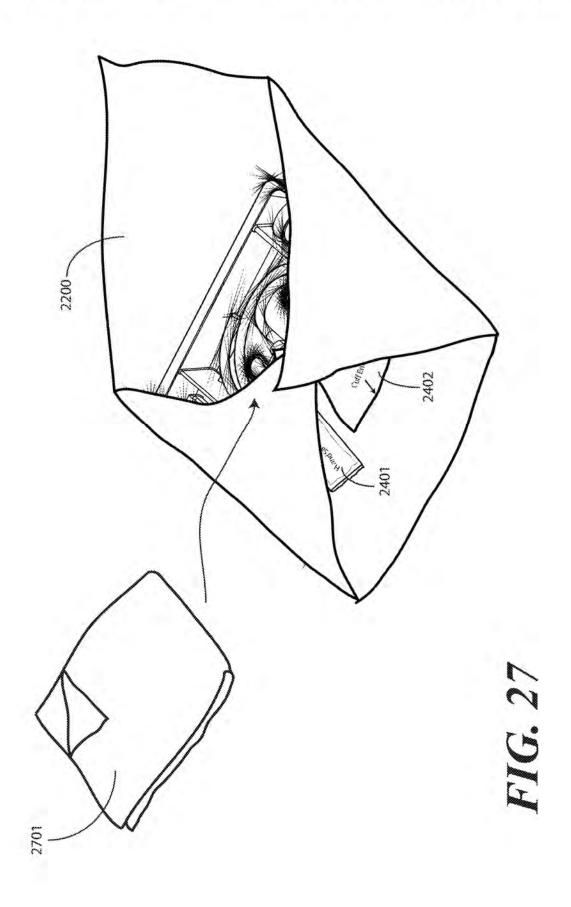
Jun. 27, 2023 Sheet 21 of 27



U.S. Patent Jun. 27, 2023 Sheet 22 of 27 US 11,684,347 B2



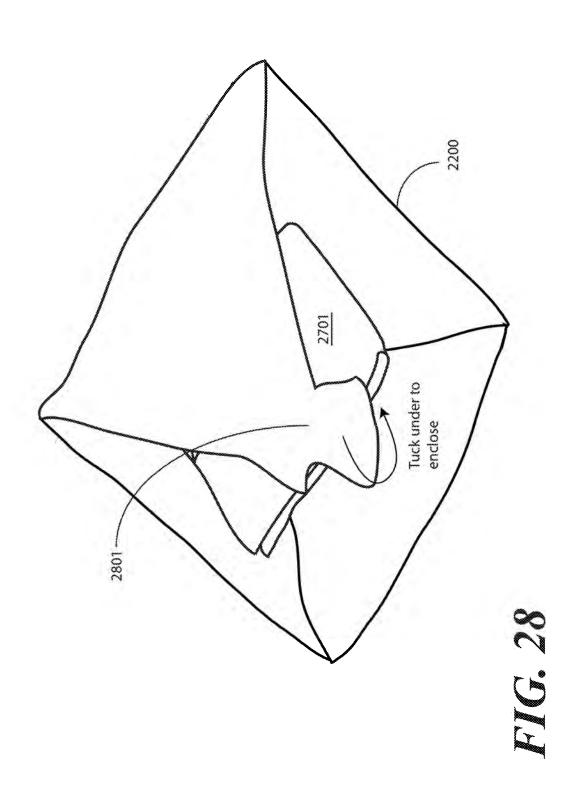
Jun. 27, 2023 Sheet 23 of 27 US 11,684,347 B2



Jun. 27, 2023

Sheet 24 of 27

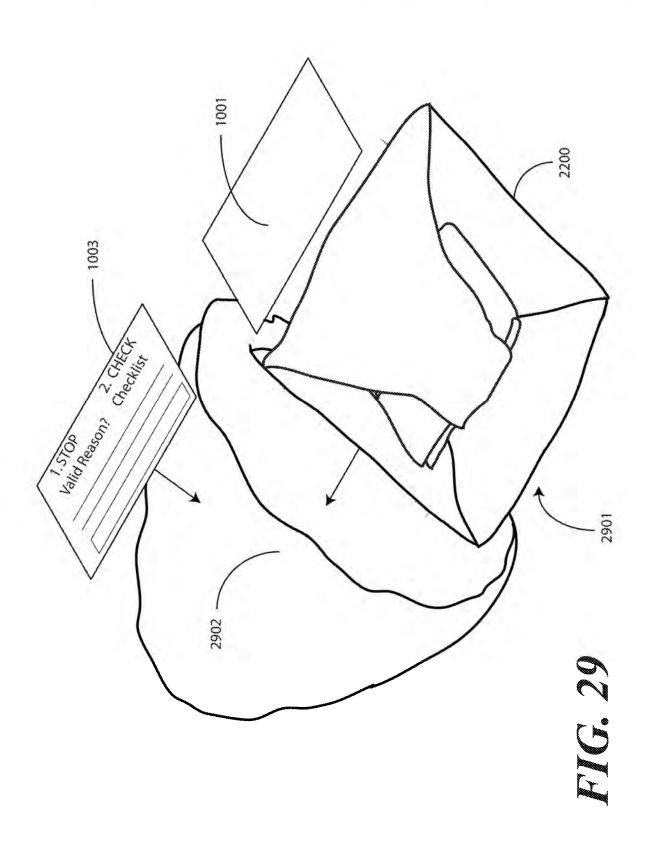
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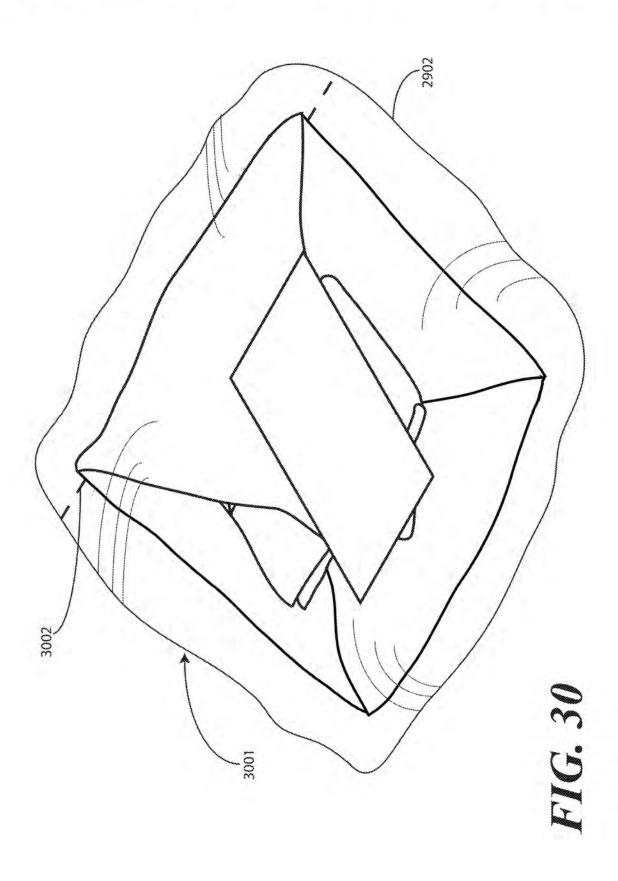
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Sheet 25 of 27

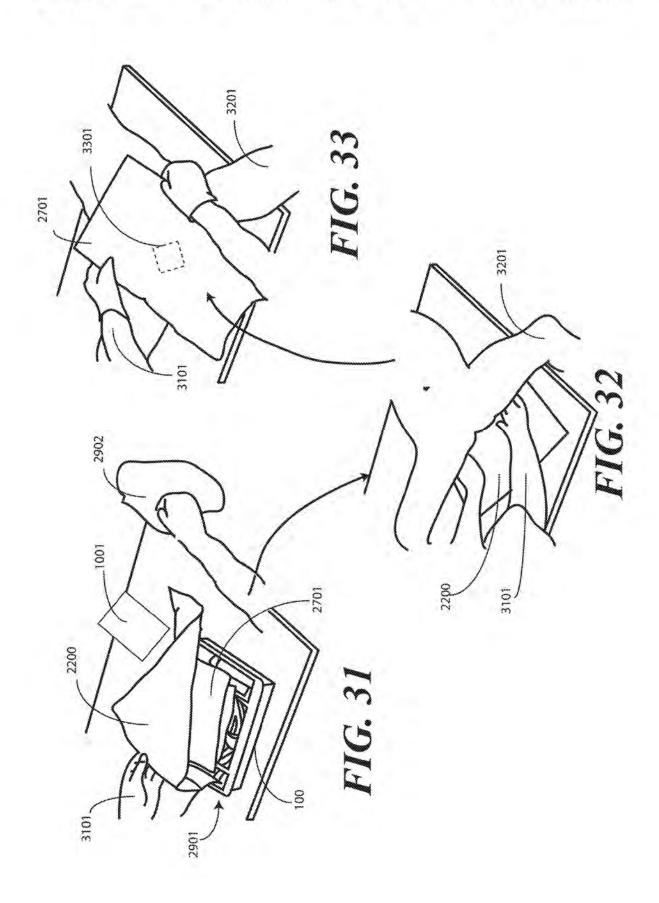
US 11,684,347 B2



U.S. Patent Jun. 27, 2023 Sheet 26 of 27 US 11,684,347 B2



Jun. 27, 2023 Sheet 27 of 27 US 11,684,347 B2



1

CATHETER TRAY, PACKAGING SYSTEM, INSTRUCTION INSERT, AND ASSOCIATED METHODS

CROSS REFERENCE TO PRIOR APPLICATIONS

This application is a continuation of, and therefore claims priority to, U.S. Ser. No. 15/640,224, filed Jun. 30, 2017, which is incorporated herein by reference, and which is a continuation application of, and therefore claims priority to, U.S. patent application Ser. No. 14/165,044, filed Jan. 27, 2014, which is incorporated herein by reference, and which is a continuation application of, and therefore claims priority to, U.S. patent application Ser. No. 13/155,053, filed Jun. 7, 15 2011, which is incorporated herein by reference, and which:

Claims priority and benefit under 35 U.S.C. § 119(e) from U.S. Provisional Application Ser. No. 61/352,140, filed Jun. 7, 2010; Ser. No. 61/352,155, filed Jun. 7, 2010; Ser. No. 61/428,944, filed Dec. 31, 2010; and Ser. No. 61/437,796, ²⁰ filed Jan. 31, 2011, each of which is incorporated herein by reference; and

Is further a continuation in part of, and therefore claims priority to the following applications, each of which is incorporated herein by reference:

U.S. patent application Ser. No. 12/495,148, filed Jun. 30, 2009; U.S. patent application Ser. No. 12/647,515, filed Dec. 27, 2009; U.S. patent application Ser. No. 13/153,265, filed Jun. 3, 2011; and U.S. patent application Ser. No. 13/153, 300, filed Jun. 3, 2011.

This application is related to commonly assigned U.S. Pat. No. 7,624,869 to Primer, which is incorporated herein by reference. This application is related to commonly assigned U.S. patent application Ser. No. 12/004,796, filed Dec. 21, 2007, which is incorporated herein by reference.

the separate views and which together description below are incorporated in a specification, serve to further illustrate v and to explain various principles and to explain various principles and accordance with the present invention.

BACKGROUND

Technical Field

This invention relates generally to storage containers for medical devices, and more particularly to a storage container for a long, flexible medical implement, such as a catheter, and related medical devices, as well as an instruction manual included therewith.

Background Art

Medical devices, including surgical instruments, supplies, and so forth, are generally shipped from manufacturer to 50 medical services provider in sterile packaging. For example, a scalpel may be shipped to a surgeon in a plastic, vacuum-sealed, sterile package. Similarly, bandages may be shipped in paper, plastic, or paper composite sterile wrappers. When the medical services provider is ready to use the medical services provider then uses the object in accordance with the procedure being performed.

While conventional packaging works well for objects having a generally unchanging form factor, special considerations have to be taken into consideration for some medical supplies. By way of example, catheter assemblies and other flexible equipment is generally shipped in a coiled configuration. Once the sterile packaging is removed, the catheter must be uncoiled prior to use. Care must be taken 65 in shipping, unwrapping, and using the catheter. For instance, if a catheter is inadvertently bent, kinked, or

2

otherwise damaged, it may no longer be suitable for use. Compounding this issue, catheters are available in a variety of lengths ranging from 100 centimeters to over 250 centimeters.

Traditional catheters are packaged, for example, in individual packaging. The catheter and card are then sealed in a sterile plastic wrap. These catheters are prone to damage in shipment, storage, and when being unpacked, as the card and wrap provide little physical protection.

Some manufacturers have started shipping catheters and other similar devices in flat plastic trays. For example, U.S. Pat. No. 6,068,121 to McGlinch teaches one such tray. The tray has several specifically contoured loops such that one universal tray will accommodate several different sized catheters. Such packaging presents a problem, however, in that large amounts of storage space are taken with a universal tray, especially when a relatively short catheter is shipped therein. Additionally, when in use, these trays occupy large amounts of a medical service provider's sterile workspace or table, leaving little room for related components, such as lubricants, fluid bags, and so forth.

There is thus a need for an improved container for flexible medical devices or catheters that facilitates more effective 25 and simpler deployment of the device during a procedure.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying figures, where like reference numerals refer to identical or functionally similar elements throughout the separate views and which together with the detailed description below are incorporated in and form part of the specification, serve to further illustrate various embodiments and to explain various principles and advantages all in accordance with the present invention.

FIG. 1 illustrates a top, front, right perspective view of one embodiment of a tray for a catheter or similar assembly in accordance with embodiments of the invention.

FIG. 2 illustrates a top, front, left perspective view of one
 embodiment of a tray for a catheter or similar assembly in accordance with embodiments of the invention.

FIG. 3 illustrates a top plan view of one embodiment of a tray for a catheter or similar assembly in accordance with embodiments of the invention.

FIG. 4 illustrates a front elevation view of one embodiment of a tray for a catheter or similar assembly in accordance with embodiments of the invention.

FIG. 5 illustrates a cut-away, left elevation view of one embodiment of a tray for a catheter or similar assembly in accordance with embodiments of the invention.

FIG. 6 illustrates a bottom plan view of one embodiment of a tray for a catheter or similar assembly in accordance with embodiments of the invention.

FIG. 7 illustrates a top, front, right perspective view of one embodiment of a tray for a catheter or similar assembly, with a catheter and corresponding procedural devices disposed therein, in accordance with embodiments of the invention.

FIG. 8 illustrates a top plan view of one embodiment of a tray for a catheter or similar assembly, with a catheter and corresponding procedural devices disposed therein, in accordance with embodiments of the invention.

FIG. 9 illustrates a transparent, front elevation view of one embodiment of a tray for a catheter or similar assembly, with a catheter and corresponding procedural devices disposed therein, in accordance with embodiments of the invention.

3

FIG. 10 illustrates a perspective view of one embodiment of a tray for a catheter or similar assembly, with a catheter and corresponding procedural devices disposed therein, along with instructions and packaging, in accordance with embodiments of the invention.

FIG. 11 illustrates a method of manufacturing one embodiment of a tray for a catheter or similar assembly, with a catheter and corresponding procedural devices disposed therein, in accordance with embodiments of the invention.

FIG. 12 illustrates one embodiment of printed instructions 10 in accordance with embodiments of the invention.

FIG. 13 illustrates one embodiment of printed instructions in accordance with embodiments of the invention.

FIGS. 14-19 illustrate exemplary panels of printed instructions in accordance with embodiments of the invention.

FIG. 20 illustrates a physical configuration of printed instructions in accordance with one embodiment of the invention.

FIG. 21 illustrates a method in accordance with embodi- 20 ments of the invention.

FIGS. 22-30 illustrate a method of packaging a catheter assembly and corresponding tray in accordance with embodiments of the disclosure.

FIGS. 31-33 illustrate an embodiment of a method of 25 using a packaged catheter assembly.

Skilled artisans will appreciate that elements in the figures are illustrated for simplicity and clarity and have not necessarily been drawn to scale. For example, the dimensions of some of the elements in the figures may be exaggerated ³⁰ relative to other elements to help to improve understanding of embodiments of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

Embodiments of the invention are now described in detail. Referring to the drawings, like numbers indicate like parts throughout the views. As used in the description herein and throughout the claims, the following terms take the 40 meanings explicitly associated herein, unless the context clearly dictates otherwise: the meaning of "a," "an," and "the" includes plural reference, the meaning of "in" includes "in" and "on." Relational terms such as first and second, top and bottom, and the like may be used solely to distinguish 45 one entity or action from another entity or action without necessarily requiring or implying any actual such relationship or order between such entities or actions. Also, reference designators shown herein in parenthesis indicate components shown in a figure other than the one in discussion. 50 For example, talking about a device (10) while discussing figure A would refer to an element, 10, shown in figure other

Embodiments of the present invention provide a tray configured to accommodate a coiled medical device such as 55 a catheter or catheter assembly. In addition to accommodating the coiled medical device, embodiments of the present invention are also configured to contain devices and materials intended for use with the coiled medical device.

Using a catheter assembly as an example, when a catheter 60 assembly is inserted into a patient, sterile water may be used to inflate the catheter. Additionally, the catheter may be coated in a lubricating jelly prior to insertion into the patient. Fluids and other samples may then be monitored and obtained from the patient via the catheter. Embodiments of 65 the present invention provide a single container configured to accommodate not only the catheter assembly and fluid

bag, but also syringes containing sterile water or lubricants. Further, the tray can accommodate a sterile specimen jar for capturing samples taken from the patient via the catheter.

In addition to simply accommodating these corresponding medical devices, in one embodiment the tray is configured to provide the medical services provider with mnemonic devices instructing them in which order to use each device. For example, a compartment containing syringes, in one embodiment, includes an inclined, stair-stepped bottom member to present the plungers of each syringe at an easy to reach angle and at different heights based upon order of use.

Another advantage of embodiments of the present invention is that compartments have multi-purpose functionality. For example, in one embodiment, a container configured to accommodate a syringe having lubricating jelly disposed therein is also configured to be used as a lubricating jelly applicator. A medical services provider first dispenses the lubricating jelly into the syringe compartment. The medical services provider then passes the catheter from another compartment through an opening in a barrier separating the compartments into the lubricating jelly. As such, the tray not only serves as a shipping and storage container for an assembly of devices used with a catheter procedure, but also as an application device to assist a medical services provider in using those products together.

Turning now to FIGS. 1-6, illustrated therein are views of one embodiment of a tray 100 configured to accommodate a catheter assembly in accordance with embodiments of the invention. FIG. 1 illustrates a top, front right perspective view of the tray 100. FIG. 2 illustrates a top, front, left perspective view of the tray 100. FIG. 3 illustrates a top plan view of the tray 100. FIG. 4 illustrates a front elevation view of the tray 100. FIG. 5 illustrates a cut-away, left elevation view of one embodiment of a tray 100. Likewise, FIG. 6 illustrates a bottom plan view of the tray 100. For simplicity of discussion, these figures will be referred to collectively with like reference numerals referring to identical or functionally similar elements throughout the separate views.

The tray 100, in one embodiment, is formed by a contoured surface 104 that defines the various features and compartments of the tray 100. The contoured surface 104 of the tray 100 can be manufactured in various ways. For example, in one embodiment, the tray 100 can be thermally formed on a mold from a soft thermoplastic, such as styrene or polystyrene. In another embodiment, the tray 100 can be injection molded. In another embodiment, the tray can be poured on a mold using a quick setting plastic, epoxy, or resin. Other methods of manufacture will be obvious to those of ordinary skill in the art having the benefit of this disclosure.

Exemplary dimensions for one embodiment of the tray 100 are as follows: The length 112 can be between nine and twelve inches, such as ten inches. One illustrative length 112 may be 10.380 inches. Similarly, the width 113 can be between eight and eleven inches, such as nine inches. One illustrative width 113 is 9.250 inches. The height 114 can be between one and three inches. One illustrative height 114 is 1.750 inches.

In one embodiment, the tray 100 includes three main compartments: a first compartment 101, a second compartment 102, and a third compartment 103. The first compartment 101 is separated from the second compartment 102 by a first barrier 105. The second compartment 102 is separated from the third compartment 103 by a second barrier 106.

In one embodiment, the compartments are open from the top of the tray 100—the top being opposite the base members of the tray 100—and are bounded on the bottom by a

first base member 107, a second base member 108, and a third base member 109. The compartments are bounded on the sides by a perimeter wall 110. In the illustrative "open top" embodiment of FIG. 1, the perimeter wall 110 ends in a horizontal flange 111 extending substantially orthogonally 5 from the perimeter wall 110. It will be clear to those of ordinary skill in the art having the benefit of this disclosure that embodiments other than that shown in FIG. 1 are possible without departing from the spirit and scope of the invention. For instance, the top of the tray 100 could have a 10 hinged or snap-coupled lid that is opened or removed to reveal the compartments there beneath.

In one illustrative embodiment, the tray 100 is configured to hold or otherwise accommodate all of the necessary devices and materials to perform a catheter-based procedure 15 on a patient. Said differently, the tray 100 is configured to hold not only the catheter assembly, but the medical devices corresponding to catheter use as well. Using one illustrative procedure as an example, the following devices will be used: a syringe holding sterile water, a syringe holding lubricating 20 jelly or another equivalent lubricant, a catheter assembly. skin cleansing or preparation materials, and a specimen jar. The various compartments and features of the tray 100 shown in FIGS. 1-6 will be described for use with these devices. As will be described in more detail below, addi- 25 tional objects can be included with the tray, such as one or more towels, a drape to cover the patient, rubber gloves, hand sanitizing materials, swab sticks, a securement device, a Foley insert tag, a printed instruction pamphlet, and so forth. The syringe holding sterile water, syringe holding 30 lubricating jelly, catheter assembly, and specimen jar are used for illustration purposes only, as it will be clear that other objects may be added to or substituted for these objects. Further, subsets of these objects may be used.

In one embodiment suitable for procedures using the 35 syringe holding sterile water, syringe holding lubricating jelly, catheter assembly, and specimen jar, in one embodiment, the tray 100 is configured such that these objects are ordered in accordance with their use during the procedure. For example, in one embodiment the tray 100 includes a first 40 compartment 101 for accommodating one or more syringes, a second compartment 102 for accommodating the catheter assembly, and a third compartment 103 for accommodating the specimen jar. These devices stowed in the various compartments will be illustrated and described with respect 45 to FIGS. 7-10 below. The discussion of FIGS. 1-6 will include the features of the tray 100 that make the tray 100 suitable for accommodating these devices.

For example, in one embodiment the first compartment base member 107 includes a stair-stepped contour 115 50 suitable for accommodating a plurality of syringes at different heights. For example, a first step portion 116 of the stair-stepped contour 115 may be at a different height within the tray 100 than a second step portion 117 of the stair-stepped contour. In the illustrative embodiment of FIGS. 55 1-6, the first step portion 116—which is disposed farther from the first barrier 105 than the second step portion 117—is shallower than the second step portion 117. Said differently, the second step portion 117 is disposed at a greater depth within the tray 100 than the first step portion 60 116.

The stair-stepped contour 115 can be used as mnemonic device when multiple syringes are stored within the first compartment 101. For example, it may be intuitive that a syringe placed on a higher step portion may need to be used 65 first. This intuition is further enforced when the higher step portion is disposed farther to the left in a left-to-right usage

6

configuration. Thus, a user receives a mnemonic reminder to use a syringe disposed on the first step portion 116 prior to a syringe disposed on the second step portion 117, as it is both higher and farther to the left.

Where syringes are stowed in the first compartment 101, the first compartment base member 107 can further be configured for syringe ease of use. For example, in one embodiment the first compartment base member 107 is inclined relative to other compartment base members. In the illustrative embodiment of FIGS. 1-6, the second compartment base member 108 and third compartment base member 109 are substantially coplanar with each other. Further, the second compartment base member 108 and third compartment base member 109 are generally flat in these views, although it will be clear to those of ordinary skill in the art having the benefit of this disclosure that contours could be incorporated into one or both of these base members.

In this illustrative embodiment, however, the first compartment base member 107 is configured to be inclined relative to one or both of the second compartment base member 108 and third compartment base member 109. As such, the stair-stepped contour 115 forms a ramp upon which syringes may be placed so that the plunger of each syringe is predisposed to project upward and out of the tray 100. Said differently, the stair-stepped contour 115 is configured such that the first step portion 116 and the second step portion 117 are disposed in a non-parallel orientation relative to the second compartment base member 108. This configuration makes it easier for a medical services provider to grasp the syringes and remove them from the tray 100.

The first compartment base member 107 may include other features suitable for accommodating one or more syringes as well. In one embodiment, one or both of the first step portion 116 and second step portion 117 include recesses 118,119 for accommodating a syringe flange. These recesses 118,119 generally function to prevent the syringes from sliding lengthwise within the first compartment 101. Similarly, in one embodiment one or both of the first step portion 116 and the second step portion 117 include protrusions 120 that help to prevent the syringes from sliding laterally within the first compartment 101.

In one embodiment, one or both of the first barrier 105 and the second barrier 106 include openings disposed therein. In the illustrative embodiment shown in FIGS. 1-6, the first barrier 105 includes a first opening 121 between the first compartment 101 and the second compartment 102. Similarly, the second barrier 106 includes a second opening 122 between the second compartment 102 and the third compartment 103. Each of these openings has an opening depth associated therewith. Similarly, each opening has an opening width associated therewith. In the illustrative embodiment of FIGS. 1-6, the first opening 121 is bounded by a first opening base member 129 and two inclined first opening side members 127,128, while the second opening 122 is bounded by a second opening base member 131, an inclined second opening side member 130, and the perimeter wall 110.

While the opening depths can be the same, in one embodiment the opening depths are different. For example, in the illustrative embodiments of FIGS. 1-6, the first opening 121 has a first opening depth 123 that is less than the second opening depth 124 of the second opening 122. Similarly, in one embodiment the opening widths are different. For example, in the illustrative embodiments of FIGS. 1-6, the first opening 121 has a first opening width 125 that is less than the second opening width 126 of the second opening 122. Such a disparity in opening depths and widths, as well

7

as the inclusion of inclined opening side members, provides an advantage in some applications.

For instance, in many catheter procedures a pair of syringes—such as syringes having a one-half inch diameter—fits easily into the first compartment 101 when the tray 5 100 is made with the illustrative dimensions set forth above. However, some procedures require one or more of the syringes to be larger. For example, some syringes are larger in diameter. These larger syringes are capable of nesting within the first opening 121 and second opening 122. The 10 inclined opening side members prevent the syringe from moving lengthwise, while the disparate opening heights present the plunger of the syringe to the medical services provider for easy removal from the tray 100.

The stair-stepped contour 115, working in tandem with 15 the first opening 121, gives the tray additional advantages over prior art catheter containers. For instance, when the first compartment 101 has a first compartment base member 107 configured with a stair-stepped contour 115, the first compartment 101 can be used as a lubricant applicator for the 20 catheter.

Specifically, the medical services provider may dispense the lubricating jelly along the second step portion 117. As the second step portion 117 is lower in the tray 100 than the first step portion 116, the second step portion 117 serves as 25 a channel in which the lubricating jelly may spread. A medical services provider may then pass the catheter through the first opening 121, through the channel formed by the second step portion 117, i.e., along the second step portion 117 through the dispensed lubricating jelly, and out 30 the top of the tray 100 to the patient. This feature of the tray 100 greatly eases the application of lubricating jelly to the catheter when compared to prior art solutions. In one embodiment, the tray 100 is packaged with printed instructions showing the medical services provider how to apply 35 lubricating jelly in this manner. The printed instructions will be described in more detail below with respect to FIGS.

This particular feature highlights another advantage of the "compartmentalized" structure of various embodiments of 40 the invention. As the tray 100 includes multiple compartments, various tasks associated with a catheterization procedure can be completed while keeping the catheter within the tray 100. The ability to keep the catheter in the tray 100 reduces the risk that the catheter or corresponding devices 45 will be contaminated with bacteria or microbes on other objects within the procedure room. For example, when the first compartment 101 is used to apply lubricating jelly to the catheter, the lubricating jelly can be applied while the catheter is contained within the tray 100, thereby reducing 50 the risk that the catheter will become contaminated. This correspondingly reduces the risk of infection for the patient receiving the catheter.

Prior art systems, for example such as those in which the catheterization procedure components are shipped in separate containers, may contribute to substandard techniques in that the catheter can become contaminated when moving it from its shipping container. Consequently, the patient can be at an elevated risk of infection as the catheter is moved from one tray to another. Embodiments of the present invention solve this problem by providing a single level tray 100 with compartments. Further, in one embodiment the first compartment 101 includes the first opening 121 so the catheter can stay in place during and after lubrication. By having easy access to the components disposed in the single level 65 tray 100, the medical services provider can more easily prepare and use the components within the tray 100. This

8

helps to minimize the risk of contaminating the patient or the sterile field during the procedure.

In one embodiment, the second step portion 117 is configured to be inclined at a shallower angle than the first step portion 116 in at least a portion opposite the recess 119 from the first opening 121. When configured in such a fashion, the second step portion 117 includes a "cutdown" so that the catheter can stay within the channel both during and after lubrication.

Additionally, the catheter can be placed in both the first opening 121 and second opening 122 during lubrication. When positioned in this configuration, the second opening 122 helps to align the catheter with the first opening for easy passage through the lubrication channel formed by the second step portion 117.

The tray 100 of FIGS. 1-6 includes additional advantages over prior art catheter packaging as well. For example, in one embodiment, instructions 132 or other graphical indicia can be printed, placed upon, or molded into the horizontal flange 111. In one embodiment, compartment designations can be placed above each compartment to ensure the medical services provider uses the correct device or material at the correct time. In another embodiment, expiratory dates for materials or devices disposed within the tray 100 may be placed on the horizontal flange 111. It will be obvious to those of ordinary skill in the art having the benefit of this disclosure that the invention is not so limited. Any number of various text or picture combinations can be printed on, placed upon, or molded into various parts of the tray. For instance, graphical indicia can be applied to the compartment base members in addition to the horizontal flange 111 Note that the horizontal flanges, in one embodiment, can terminate in downwardly protruding vertical flanges for increased stability during the printing process.

Another advantage of the tray 100 is that its compartmentalized configuration helps to reduce the risk of contaminating a patient or compromising the sterile nature of the components stored in the tray 100. Since both the catheter assembly and medical devices corresponding to catheter use are stored within the same tray 100, the risk of cross-contamination between sterile work areas and non-sterile spaces is minimized. Further, by having the catheter assembly and the devices corresponding to catheter use stowed in a one-level tray rather than a multi-level, stacked configuration, the medical services provider can more easily prepare and use the catheter and corresponding devices disposed within the tray 100.

Turning now to FIGS. 7-9, illustrated therein is a tray having a catheter assembly 700, syringes 701,702, and a specimen container 703 stored therein as a catheter packaging system in accordance with one embodiment of the invention. As with FIGS. 1-6, FIGS. 7-9 will be referred to collectively with like reference numerals referring to identical or functionally similar elements throughout the separate views, FIG. 7 illustrates a top, front, right perspective view of the catheter packaging system, while FIG. 8 illustrates a top plan view of the catheter packaging system. FIG. 9 illustrates a transparent, front elevation view of the catheter packaging system.

The illustrative catheter packaging system of FIGS. 7-9 includes a tray 100 having a first compartment 101, a second compartment 102, and a third compartment 103. In this illustrative embodiment, the first compartment 101 is configured to accommodate syringes 701,702. The second compartment 102 is configured to accommodate a coiled medical device, such as catheter assembly 700. The third compartment 103 is configured to accommodate the specimen con-

tainer 703. The third compartment 103 can accommodate other materials as well, including skin sanitizers and cleansing liquids, solutions, or gels. As mentioned above, additional devices corresponding to catheter use, including towels, drapes, rubber gloves, and so forth, can be disposed in 5 the tray 100 as well. As an illustration of this flexibility, a towel 704 is disposed beneath the catheter assembly 700.

As illustrated in FIGS. 1-6, each compartment of the tray 100 includes a compartment base member. Further, each compartment is separated by a barrier having an opening therein. A first barrier 105 having a first opening 121 therein separates the first compartment 101 from the second compartment 102. Similarly, a second barrier 106 having a second opening 122 therein separates the second compartment 102 from the third compartment.

Syringes 701,702 are disposed in the first compartment, with one syringe 701 being supported at a different elevation within the tray than the other syringe 702. The different elevations can be relative to each syringe 701,702, or to other components of the tray 100, such as the second 20 compartment base member 108. Said differently, one syringe 701 is supported by the first compartment base member 107 at a shallower depth within the tray 100 than the depth of the second compartment base member 108. Further, where the first compartment base member 107 is inclined relative to other base members, one or both syringes 701,702 will be supported in a non-parallel configuration relative to the second compartment base member 108. This is most readily seen in FIG. 9.

As noted above, some medical procedures will call for 30 more materials than can be accommodated by a syringe capable of fitting within the first compartment 101. For such procedures, the tray 100 can be packed with larger syringes. A large syringe (not shown) can be supported laterally within the tray 100 when it is placed across the tray 100 such 35 that it lies within both the first opening 121 of the first barrier 105 and the second opening 122 of the second barrier 106. Such a syringe will pass across the top of the catheter assembly 700, but will be held in place by the side members of each opening.

Turning now to FIG. 10, illustrated therein is an exploded view of the tray 100 having the catheter assembly 700, a pair of syringes 701,702, and a specimen container 703 disposed therein. While only a specimen container 703 is shown as being disposed in the third compartment, note that additional 45 items could also be included within the third compartment, including swab sticks. Other devices could also be inserted into the tray 100 in various compartments as well. For example, in one embodiment, a catheter securement device, and a Foley insertion tag can be inserted into the second 50 compartment 102. Also, note that the pair of syringes 701,702 can be configured as shown in FIG. 10, or alternatively can be both inserted in the first compartment, as described above. In the configuration of FIG. 10, rather than having both syringes 701.702 disposed within the first 55 compartment 101, one syringe 702 is disposed laterally in the first opening 121 and the second opening 122 of the first barrier 105 and second barrier 106, respectively. This configuration is illustrative only.

Once the necessary components are disposed within the 60 tray 100, the tray can be sealed with a wrap 1000 to keep the internal components sterile. The wrap 1000 can be any of a number of types of material. In one embodiment, the wrap 1000 comprises a Central Sterile Reprocessing (CSR) wrap that is used widely by medical professionals in hospitals, 65 ambulatory surgical centers, and the like during medical procedures. While a CSR wrap is one example of a wrap that

10

can be used, it will be clear to those of ordinary skill in the art that other wraps, such as plastic, cotton, linen, paper, or combinations thereof, can be substituted without departing from the spirit and scope of the invention.

Using a CSR wrap as an illustrative example, in one embodiment as indicated in FIG. 10, the CSR wrap 1000 is folded about the tray 100 for sealing, and can be correspondingly unfolded to reveal the tray 100. Once unfolded, the CSR wrap 1000 can then be used in the catheter insertion process. For example, an unfolded CSR wrap 1000 can be used to provide a sterile field in which the tray 100 sits for unloading and subsequent use. This process will be explained in more detail in the discussion of FIGS. 22-30 below.

Printed instructions 1001 can then be attached to, disposed upon, or disposed within the tray 100. In one embodiment, the printed instructions 1001 include a health care services portion and a patient portion, as will be shown in FIGS. 12-13 below. The health care services portion can include instructions telling the health care services provider, for example, how to set up a sterile or otherwise clean work environment, how to prepare the catheter assembly 700 disposed within the tray, how to use the other devices within the tray, how to insert the catheter, how to secure the drainage bag to the catheter, how to empty the drainage bag, how to obtain a urine sample, and so forth. The instructions can include pictures or illustrations showing visually how the various steps should be done as well.

The patient portion can include helpful suggestions or instructions for the patient. The patient portion can be detachably coupled to the health care services portion, such as by a perforated line that is easily torn to separate the patient portion from the health care services portion. Examples of suggestions or instructions that may be included in the patient portion include information on what a catheter is, what the patient should understand about the catheter, how to reduce the chance of getting an infection, information about infections commonly associated with catheters, symptoms of infections commonly associated with catheters, and suggestions for home use of the catheter assembly 700. In one embodiment, the health care services portion may include an instruction for the health care services provider to detach the patient portion from the health care services portion and instructions to discuss the patient portion with the patient.

The health care services portion can tell the medical services provider how to perform a standard catheterization procedure. For instance, in one embodiment, the tray 100 is equipped with an adhesive label that can be used to identify the patient or specimen in the specimen container 703. Further, a label can be included to mark or otherwise identify the material in the fluid bag attached to the catheter. Such labels can include pre-printed fields, such as date, time and name. Further the printed instructions 1001 can notify the medical services provider that the devices disposed within the tray 100 are ordered corresponding to use during the catheterization procedure.

In another embodiment, the printed instructions 1001 can inform the medical services provider of special instructions. For instance, in one embodiment the printed instructions 1001 can inform the medical services provider not to leave a catheter in a patient for more than forty-eight hours without a physician's approval. Where the printed instructions 1001 include such information, the labels included in the tray 100 may have pre-printed fields for the time of insertion that can be filled in by the medical services provider performing the catheterization procedure.

Once the printed instructions 1001 have been affixed to, or placed with, within, or atop the tray 100, the assembly can be sealed in a sterile wrap 1002 such as a thermally sealed bag. The thermally sealed bag can optionally include a preformed opening. For example, in one embodiment, the 5 opening can include one or more tabs that a health care services provider is instructed to pull to open the bag. Inclusion of a sterile wrap 1002 not only keeps the contents within the bag sterile, but also allows the instructions to be included with the tray assembly, yet outside the CSR wrap 10 1000

In one embodiment the printed instructions 1001 are disposed atop the CSR wrap 1000 such that the health care services portion of the printed instructions 1001 is disposed on the top of the printed instructions 1001, with the patient 15 portion being disposed adjacent to the CSR wrap 1000, such as when the printed instructions 1001 are configured as an accordion-style folded instruction pamphlet. While the printed instructions 1001 of one embodiment are configured as a folded, printed, separate article disposed atop the CSR 20 wrap 1000, it will be clear to those of ordinary skill in the art having the benefit of this disclosure that the invention is not so limited. For example, in one embodiment the sterile wrap 1002 can be optional. In one embodiment, rather than including separate printed instructions 1001, the instructions 25 for use can be printed on the CSR wrap 1000 as well.

Additional instruction materials may be included with the completed assembly as well. For example, in one embodiment an adhesive instruction tag 1003 can be affixed to the sterile wrap 1002. For example, in one embodiment the 30 instruction tag 1003 can include information regarding whether a catheter procedure is needed. Text 1004 such as "Is there a valid clinical reason?" may be included under an instruction to "Stop" that includes the following information:

Before inserting the Foley catheter, at least one of the following conditions should exist:

Acute urinary retention or obstruction

Precise measurement of urinary output needed

Select surgical procedures

Open sacral or perineal wounds in incontinent patient

Prolonged immobilization

End of life care

Further, checklist text 1005 may be included, such as "Checklist for Foley Catheter Insertion" included under the 45 word "Check" that includes the following information:

Check Each Box Upon Completion: Obtain order from physician/provider

Document clinical reason for insertion

Explain procedure to patient

Use smallest catheter possible

Perform hand hygiene

Follow aseptic technique

Additional information may also be included, such as a fillable form 1006 that provides fields for the date and time 55 of insertion of the catheter to be recorded, the name of the health care services provider, and the signature of the health care services provider. The above text 1004 for the instruction tag 1003 is illustrative only, and may be customized as desired by the manufacturer.

Turning now to FIG. 11, illustrated therein is a method 1100 for manufacturing a packaged catheter assembly in accordance with embodiments of the invention. At step 1101, the manufacturer provides a tray (100) having at least a first compartment (101) for accommodating one or more 65 syringes (701,702) and a second compartment (102) for accommodating a flexible medical device, such as a catheter

12

assembly (700). As noted above, in one embodiment the first compartment (101) will have a first compartment base member (107) having an inclined, stair-stepped contour (115). The first compartment (101) and second compartment (102) can be separated by a first barrier (105) having an opening (121) therein.

Once the tray (100) is procured, the manufacturer can dispose at least one syringe (701) in the first compartment (101) at step 1102. Optionally, at step 1103, the manufacturer may include additional components with the tray (100). For example, a catheter securement device, a Foley insert tag, or other complementary components may be included at this step 1103.

In one embodiment, as determined at decision 1105, a second syringe (702) will be disposed in the first compartment (101) at step 1106. In another embodiment, the second syringe (702) will be disposed laterally within the first opening (121) and, where present, a second opening (122) at step 1107.

At step 1104, the manufacturer will place the catheter assembly (700) in the second compartment (102). Other components may be disposed in the tray (100) as well, including a specimen container (703) that is disposed in a third compartment (103) at step 1108. Further, other devices may be included, such as towels, drapes, printed instructions, one or more antiseptic packets, and so forth. These other devices can be disposed in various compartments within the tray (100).

At step 1109, the tray (100) is sealed. This can be accomplished by folding a CSR wrap about the tray (100). In such an embodiment, the CSR wrap can be used during the catheter insertion procedure as well. At optional step 1110, the manufacturer can enclose printed instructions (1001). In one embodiment, the printed instructions (1001) will direct a user to discharge contents of at least one syringe into the first compartment (101) and to pass at least a portion of the catheter assembly (700) through the opening and into the contents to lubricate the catheter.

At step 1111, the manufacturer can place a sterile wrap about the tray (100) and the printed instructions (1001), where included. A sticker or other sealing device can be applied that indicates the contents to be sterile as well. At step 1112, the completed assembly can be shipped to a medical services provider.

Turning now to FIGS. 22-30, illustrated therein is a method of packaging a catheter assembly and corresponding tray in accordance with embodiments of the invention. FIGS. 22-30 illustrate one exemplary method graphically, which each figure representing one or more steps of the method, as the illustrations serve to better explain these steps than would a flow chart or other diagram. While FIGS. 22-30 illustrate one method of packaging a tray and catheter assembly, it will be clear to those of ordinary skill in the art having the benefit of this disclosure that other methods can be used as well. Further, in creating this article of manufacture, i.e., the packaged catheter assembly, the steps of FIGS. 22-30 may be either manual or automated. A person can execute the steps to create the article of manufacture in one embodiment. Alternatively, industrial machinery, equipment, and robotics can be designed and programmed to execute the steps with the assistance of one or more processors and executable instructions stored in memory.

Beginning with FIG. 22, in this step, a tray 100 is provided. The tray includes at least one compartment, such as the first compartment 101 that is configured for receiving the catheter assembly 700. As described above, the tray 100

can include additional compartments as well, such as those for receiving syringes, specimen jars, and so forth.

At this step, the catheter assembly 700 is placed within the first compartment 101 as previously described. The tray is then placed upon one or more layers of wrap material 2200. 5 In one embodiment, the wrap material 2200 can be CSR wrap. For example, in the illustrative embodiment of FIG. 22, the wrap material 2200 comprises a white layer of CSR wrap measuring 24 inches square. As previously noted, other materials can be used as well, including plastic materials, cotton materials, paper materials, synthetic materials and so forth. The wrap material 2200 can be of different shapes and sizes as well.

While the tray 100 can be sealed with a simple layer of plastic adhered to the top of the tray 100, providing the wrap material 2200 can be advantageous in many applications. For example, as will be explained below with respect to FIGS. 31-33, when the wrap material 2200 is a medically usable material, such as CSR wrap, a medical services 20 provider may unfold the wrap about the tray 100 to create a sterile field for the catheterization procedure. For this reason, one or more layers of wrap material 2200 are simply folded about the tray 100 in this illustrative embodiment.

Note that for reference and ease of explanation, the tray 25 100 will be described as having four sides: a first side 2201, a second side 2202, a third side 2203, and a fourth side 2204. As these sides will not be visible in every view, due to the folding of the wrap material 2200 about the tray 100, they are initially noted here. Note that four sides are used because the illustrative tray 100 is rectangular in shape. Were the tray a triangle, there would be three sides. Were the tray ovular or circular, there would be an infinite number of sides.

Turning now to FIG. 22, at this step a first portion 2301 of the one or more layers of wrap material 2200 is folded about a first side (2201) of the tray 100. In this illustrative embodiment, the tray 100 is oriented at a rotation of approximately forty-five degrees relative to the one or more layers of wrap material 2200, with both the wrap material 2200 and the tray 100 being rectangular in shape. As such, the first portion 2301 comprises a first corner of the wrap material 2200. It will be clear to those of ordinary skill in the art having the benefit of this disclosure, however, that embodiments of the invention are not so limited. For example, the wrap material 2200 can be configured as a circle or oval. Executing the step shown in FIG. 22, a first portion of that material could be folded about a first side of the tray 100 in similar fashion.

Turning to FIG. 23, illustrated therein is an optional step 50 that can be included in the method of packaging the catheter assembly. As noted above, in one embodiment the one or more layers of wrap material 2200 can be unfolded to create a sterile field about the tray 100. A patient can be placed atop this sterile field for the catheterization procedure. Even if the 55 surface below the wrap material 2200 is also sterile, the use of the wrap material 2200 as a foundation for the procedure further ensures that the sterile field will not be breached.

To help ensure that the health care provider does not inadvertently breach the sterile field, in one embodiment a 60 package of liquid hand sanitizer 2401 or other cleanser and/or a package of rubber gloves 2402 may be included. In such an embodiment, upon opening the packaged catheter assembly, the health care services provider may—before ever touching the catheter assembly or tray contents—apply 65 the liquid hand sanitizer 2401 to their hands and dawn rubber gloves. The inclusion of these accessories in the

14

packaging eliminates the need for the health care services provider to have to leave the sterile field to wash their hands, obtain gloves, and so forth.

In the illustrative embodiment of FIG. 23, the package of liquid hand sanitizer 2401 and package of rubber gloves 2402 are simply placed atop the first portion 2301 of the one or more layers of wrap material 2200. As will be shown below, they will be held in place by other portions of the one or more layers of wrap material 2200 by way of subsequent folding steps. Other methods of holding them in place, including light adhesives or the design of pockets in the one or more layers of wrap material 2200 may also be used.

Turning now to FIG. 25, at this step a second portion 2501 of the one or more layers of wrap material 2200 is folded about a second side (2202) of the tray 100. Where the optional package of liquid hand sanitizer 2401 and package of rubber gloves 2402 are included, the second portion 2501 of the one or more layers of wrap material 2200 may be folded so as to cover or partially cover these items.

Turning now to FIG. 26, at this step of the method a third portion 2601 of the one or more layers of wrap material 2200 is folded about a second side (2203) of the tray 100. Where the optional package of liquid hand sanitizer 2401 and package of rubber gloves 2402 are included, the third portion 2601 of the one or more layers of wrap material 2200 may be folded so as to cover or partially cover these items.

Turning now to FIG. 27, illustrated therein is another optional step of the method of packaging the catheter assembly and tray. In many catheterization procedures, a first layer of material will be placed under the patient, while a second layer of material is placed atop the patient. For such applications, the packaged catheter assembly can include an additional layer of wrap material 2701. In the illustrative embodiment of FIG. 25, the additional layer of wrap material 2701 comprises a folded layer of CSR wrap measuring 17 by 17.5 inches. The additional layer of wrap material 2701 in this illustrative embodiment is folded as a 4 by 2 matrix.

The one or more layers of wrap material 2200 and the additional layer of wrap material 2701 can be the same type of material. Alternatively, the one or more layers of wrap material 2200 and the additional layer of wrap material 2701 can be different. In one embodiment, for example, the additional layer of wrap material 2701 can be a fenestrated wrap with one or more pre-formed openings suited to the catheterization procedure.

In one embodiment, the additional layer of wrap material 2701 is configured to be visibly distinguishable from the one or more layers of wrap material 2200. For example, in one embodiment, the additional layer of wrap material 2701 is a different color than the one or more layers of wrap material 2200. The one or more layers of wrap material 2200 can be white, for instance, while the additional layer of wrap material 2701 can be light blue or light green. Other color combinations can equally be used.

As with the package of liquid hand sanitizer 2401 and package of rubber gloves 2402, in one embodiment the additional layer of wrap material 2701 can be placed atop portions of the one or more layers of wrap material 2200. In such an embodiment, the additional layer of wrap material 2701 can be held in place by way of subsequent folding steps, as the additional layer of wrap material 2701 is disposed along other folded portions of the one or more layers of wrap material 2200 prior to folding a fourth portion of the one or more layers of wrap material about the fourth side (2204) of the tray (100).

15

Turning now to FIG. 28, the tray (100) is enclosed in the one or more layers of wrap material 2200 by folding a fourth portion 2801 of the one or more layers of wrap material 2200 about a fourth side (2204) of the tray (100) and then tucking at least one of the first portion (2301), the second portion 5 (2501), the third portion (2601), or the fourth portion 2801 of the one or more layers of wrap material 2200 beneath at least another of the first portion (2301), the second portion (2501), the third portion (2601), or the fourth portion 2801 of the layer of wrap material 2200. In the illustrative embodiment of FIG. 28, a part of the fourth portion 2801 is tucked beneath parts of each of the (2301), the second portion (2501), and the third portion (2601). This step of tucking encloses both the additional layer of wrap material 2701 and the package of liquid hand sanitizer (2401) and the 15 package of gloves (2402) within the one or more layers of wrap material 2200

Turning now to FIG. 29, the packaged catheter assembly 2901 can be sealed in a bag 2902 as was described in FIG. 10. Prior to depositing the packaged catheter assembly 2901 20 into the bag 2902, optional printed instructions 1001 can be attached to or disposed upon the packaged catheter assembly 2901 as well. As with FIG. 10, the printed instructions 1001 can include a health care services portion and a patient portion as shown in FIGS. 12-13. The instructions can 25 include pictures or illustrations showing visually how the various steps should be done as well.

Once the printed instructions 1001 have been affixed to, or placed with or atop the packaged catheter assembly 2901, the assembly can be sealed in a sterile wrap such as a bag 30 2902, which may be thermally or otherwise sealed. The completed assembly 3001 is shown in FIG. 30, where the thermally sealed bag 2902 optionally includes a preformed opening 3002. For example, in one embodiment, the preformed opening 3002 can include one or more tabs that a 35 health care services provider is instructed to pull to open the bag 2902. Inclusion of a sterile wrap not only keeps the contents within the bag sterile, but also allows the printed instructions 1001 to be included with the tray assembly, yet outside the one or more layers of wrap material (2200).

Turning back to FIG. 29, in one embodiment the printed instructions 1001 are disposed atop the one or more layers of wrap material 2200 such that the health care services portion of the printed instructions 1001 is disposed on the top of the printed instructions 1001, with the patient portion 45 being disposed adjacent to the one or more layers of wrap material 2200. As with FIG. 10, additional instruction materials may be included with the completed assembly as well. For example, in one embodiment an adhesive instruction tag 1003 can be affixed to the bag 2902.

Turning now to FIGS. 12-13, illustrated therein is one embodiment of the printed instructions 1001 in accordance with embodiments of the invention. The printed instructions 1001 can be configured as an instruction manual suitable for illustrates a view of a first side of the instruction manual, while FIG. 13 illustrates a view of a second side of the instruction manual.

In one embodiment, the printed instructions 1001 are configured as a two-portion instruction manual having a 60 health care services portion 1201 and a patient portion 1202. In the illustrative embodiment of FIGS. 12-13, the patient portion 1202 is detachably coupled to the health care services portion 1201, and is thus separated from the health care services portion 1201, by a perforation 1203. For 65 example, where the printed instructions 1001 are configured as a printed material on a paper-based stock, the perforation

16

1203 can be a perforated line running along a dimension of the printed instructions 1001 such that the printed instructions 1001 can be easily torn along the perforation 1203 to separate the patient portion 1202 from the health care services portion 1201.

In one embodiment, the printed instructions 1001 are configured as a plurality of panels 1204,1205,1206,1301, 1302,1303. As will be shown in FIG. 20, in one embodiment the printed instructions 1001 can be configured as an instruction manual that is formed with an accordion-style fold, with each of the panels 1204,1205,1206,1301,1302,1303 forming a page of the instruction manual. In the illustrative embodiment of FIGS. 12-13, panels 1204,1205 and panels 1301, 1302 form the health care services portion 1201, while panels 1206,1303 form the patient portion. Panels 1206, 1303 are separated from panels 1204,1205 and panels 1301, 1302 by the perforation 1203 such that the patient portion 1202 is tearably separable from the health care services portion 1201.

In one embodiment, the health care services portion 1201 includes instructions 1304 for using the catheter assembly and other corresponding medical devices disposed within the accompanying tray. The instructions 1304 can include text and/or figures or illustrations showing how to use the catheter assembly and corresponding medical devices on the patient, as well as instructions on preparation, taking samples, preventing infection, and so forth. The instructions 1304, in one embodiment, also include an instruction to detach the patient portion 1202, give the patient portion 1202 to the patient, as well as an instruction to discuss the information disposed on the patient portion 1202 with the patient.

Similarly, the patient portion 1202 may also include instructions 1305 and/or helpful suggestions for the patient who is undergoing the catheterization procedure. For instance, this information can include any one or more of the following: a description of what a catheter is, what the patient should know about the catheter, how to reduce the chance of getting an infection from the catheterization procedure, what infections commonly associated with catheterization procedures typically are, the symptoms associated with infections commonly associated with catheterization procedures, and information about using the catheter at home. Additionally, the patient portion 1202 may include custom information as well. For example, in one embodiment the patient portion 1202 includes an informational section configured such that the health care service provider's name and contact information can be written thereon. It will be clear to those of ordinary skill in the art having the benefit of this disclosure that the invention is not so limited. For example, additional types of health care service instructions or patient instructions or suggestions can also be included.

Turning now to FIGS. 14-19, illustrated therein are exeminclusion with a tray (100) as described above, FIG. 12 55 plary panels 1204,1205,1206,1301,1302,1303. These panels 1204,1205,1206,1301,1302,1303 are intended to illustrate exemplary instructions for the health care services portion (1201) and patient portion (1202) of an illustrative instruction manual for a catheter assembly and corresponding medical devices included with an accompanying tray (100). It will be clear that these panels 1204,1205,1206,1301,1302, 1303 and the information printed thereon can be varied in any number of ways without departing from the spirit and scope of the invention as described herein and recited in the following claims. For example, the number of panels can be varied. Additionally, the information printed thereon can be condensed, expanded, or altered without departing from the

spirit and scope of the invention. Also, the exemplary information may be moved from the panels shown to other panels, as a particular application may warrant.

Beginning with FIG. 14. illustrated therein is one exemplary panel 1204. In one embodiment, panel 1204 will be 5 configured such that when the catheter package assembly within which the instruction manual is disposed is initially opened, panel 1204 will be readily viewable. For example, where the catheter package assembly is assembled as shown in FIG. 10 above, once the sterile wrap (1002) is removed, 10 the panel 1204 will be viewable prior to removal of the CSR wrap (1000).

Panel 1204 can include general information about the catheter assembly and corresponding medical devices disposed within the tray. For example, this information can 15 include part number information 1401, trade name information 1402, and manufacturer information 1403. A diagram 1404 of the contents of the package assembly may be included as well. The illustrative diagram 1404 of FIG. 14 illustrates a tray 100 having a catheter assembly 700 and 20 corresponding medical devices disposed therein. The corresponding medical devices of this illustrative embodiment include a pair of syringes 701,702 and a specimen container 703. Additionally swab sticks 1408, a catheter securement device 1409, a Foley insert tag 1410, vinyl gloves 1411, a 25 fenestrated drape 1412, an underbuttocks drape 1413, and a hand sanitizer 1414 solution or wipe are disposed within the tray 100.

In addition to a diagram 1404, panel 1204 can also include a written description 1407 of the elements included in the 30 tray 100. Further, sterility information 1407 can be included. Panel 1204 can even include instructional material 1406 on how to use the instruction manual as well.

Turning now to FIG. 15, illustrated therein is one embodiment of panel 1301. As will be described below with respect 35 to FIG. 20, in one embodiment the printed instructions (1001) are configured as an accordion-style folded instruction manual. In such a configuration, panel 1301 can be disposed on the back of panel 1204. Panel 1301 will therefore be visible upon a health care services provider 40 opening the instruction manual.

Panel 1301 can include instructions for using the catheter assembly and the corresponding medical devices. As can be seen from this illustrative embodiment, panel 1301 can include instructions for setting up a clean work area. The 45 instructions can include text, pictures, illustrations, or combinations of these.

In one embodiment, the instructions for setting up a clean work area include a hygiene performance step 1501, which may include instructions to wash hands, optionally put on 50 gloves (which at this step can be non-sterile gloves), and so froth. The instructions may then include information on opening the remainder of the catheter package assembly. For instance, in FIG. 15 step 1502 indicates that the health care provider should remove the CSR wrap (1000), which in this case is folded about the tray (100). Note that in this illustrative embodiment, as the CSR wrap (1000) is folded about the tray (100), removal of the CSR wrap (1000) by unfolding creates a sterile field about the tray (100).

Step 1503 then instructs the health care provide to pick up 60 the underbuttocks of the patient and to place the underbuttocks wrap beneath the patient. Step 1504 then instructs the health care provider to use the hand sanitizing solution provided with the catheter package assembly.

As with other panels shown in FIGS. 14-19, the various 65 panels may include suggestions 1505 for preventing a catheter associated urinary tract infection. Some of this infor-

18

mation is illustratively shown in FIG. 15. It will be understood that this information can be placed on one or more panels.

In addition to information for setting up a clean work area, in one embodiment panel 1301 includes instructions for preparing the catheter assembly (700) as well. For example, step 1506 instructs the health care services provider to don sterile gloves, as the hands were sanitized at step 1504. Step 1507 tells the health care services provider to place the fenestrated drape with a shiny side down on the patient without contaminating the sterile gloves donned at step 1506. Step 1508 instructs the health care services provider to test the balloon of the catheter assembly with the waterfilled syringe stored in the first compartment. Step 1508 also instructs the health care services provider to leave the syringe connected to the catheter assembly.

Step 1509 then provides instructions on using the first compartment of the tray as a lubricant application chamber as described above. Specifically, in this illustrative embodiment, step 1509 instructs the health care services provider to inject the lubricating jelly found in the second syringe of the first compartment into the first compartment. Step 1509 also instructs the health care services provider to pass the tip of the catheter through the first opening in the wall separating the first compartment and second compartment into the lubricating jelly, thereby lubricating the tip of the catheter.

Turning now to FIG. 16, illustrated therein is an exemplary embodiment of panel 1302. The instructions printed thereon continue to provide the health care services provider with information regarding use of the catheter assembly. For example, in one embodiment, this information includes instructions on inserting the catheter.

At step 1601, the instructions direct the health care services provider to tear open the swab stick package and to use the swab sticks to clean the patient from the top down. The instruction also notes that each swab stick is intended for one use only to properly maintain the sterile field. Step 1602 directs the health care services provider to initiate the catheterization process by inserting the catheter assembly into the patient. Steps 1603 and 1604 continue this process as shown in FIG. 16.

Step 1605 directs the health care services provider to secure the drainage bag to the catheter assembly. Step 1606 directs the health care services provider to clean up upon completion of the catheterization process. Step 1607 provides instructions on completing the label on the Foley insertion tag included with the catheter package assembly and attaching it to the tubing or drain bag attached to the catheter assembly.

At step 1608, the health care services provider is instructed to detach the patient portion (1202) from the health care services portion (1201) by tearing the two apart along the perforation (1203). Step 1609 further instructs the health care services provider to discuss the patient information printed upon the patient portion (1202) with the patient. Step 1609 instructs that documentation of the entire procedure should be completed.

Turning now to FIG. 17, illustrate therein is one embodiment of panel 1303, which represents a first side of the patient portion (1202). This panel 1303 includes information 1701 describing what a catheter is and why a catheter might be used. The panel 1303 also includes information 1702 describing what the patient should know regarding catheters and catheter use. For example, this information 1702 might notify the patient that the health care services provider

should wash hands prior to inserting the catheter, and that it is acceptable to ask them to do so if they have not done so before the patient.

The panel 1303 also includes information 1703 regarding how the patient can reduce the chances of getting an 5 infection. This information 1703 can include a statement that the patient should wash their hands prior to touching the catheter assembly. The information 1703 may also include a statement that the drainage bag should always be kept at a level beneath the patient's navel, and that the patient should 10 inform a helper when the bag is more than half full.

Turning to FIG. 18, illustrated therein is one embodiment of panel 1206. In this illustrative embodiment, panel 1206 forms the second side of the patient portion (1202) of the instruction manual, and accordingly, includes additional 15 information that a patient may wish to know when using a catheter assembly.

By way of example, information 1801 informs the patient as to what common infections associated with catheter use are and how they are contracted. Information 1802 provides symptoms of these common infections, such as fever, blood in the urine, burning or painful urination, or frequent or more urgent urination after catheter removal. Information 1803 informs the patient of what they should know prior to going home after a catheter procedure.

Information 1804 comprises an informational section configured such that a health care provider's name and contact information may be written thereon. This is helpful to the patient in the event that the symptoms recited in information 1802 should arise after the procedure, in that the 30 patient has readily available access to the information required to contact a physician or other health care provider. An advantage of having this information 1804 on the patient portion (1202) when the patient portion (1202) is detachable is that the patient can take it with them upon completion of 35 the procedure.

Turning now to FIG. 19, which is a portion of the health care services portion (1201), illustrated therein is one embodiment of panel 1205 that provides additional health services information. For example, information 1901 for 40 emptying the drain bag and information 1902 describing how to obtain a urine sample can be included.

Turning now to FIG. 20, illustrated therein is one physical configuration in which the printed instructions 1001 can be delivered along with the catheter package assembly in 45 accordance with embodiments of the invention. FIG. 20 is but one of many configurations, and embodiments of the invention are not to be limited in this respect, as FIG. 20 is illustrative only.

In FIG. 20, the printed instructions 1001 are configures as a tri-section, accordion style bi-folded panel. Three sections 2000,2001,2002 are folded in an accordion style, with two folds 2003,2004 existing between the sections 2000,2001, 2002. When the printed instructions 1001 are configured as shown in FIGS. 12-13, folding the printed instructions 1001 to be disposed atop the patient portion 1202. Further, when the printed instructions are disposed atop a CSR wrap (1000) as shown in FIG. 10, by disposing the patient portion 1202 adjacent to the CSR wrap (1000), the health care services provider removing the sterile wrap (1002) off of the catheter package assembly will be assured of seeing the health care services portion 1201 first.

Turning now to FIG. 21, illustrated therein is a method 2100 of using the printed instructions (1001) as described 65 herein. At step 2101, a health care services provider removes the sterile wrap (1002) disposed about the catheter package

20

assembly. Where the sterile wrap is a sealed bag, this step 2101 can include unsealing the sealed bag. Where the sterile wrap is a thermally sealed bag, this step 2101 can include breaking through the bag or breaking the thermal seal. Where the bag is sealed with an adhesive or other type of seal, such as one including pull-tabs, this step 2101 can include pulling the pull-tabs or separating the adhesive seal. Other opening steps will be obvious to those of ordinary skill in the art having the benefit of this disclosure. Where the tray is wrapped with one more layers of wrap, such as CSR wrap, this step 2101 can reveal the one or more layers of wrap folded about the tray.

Where the catheter package assembly is configured as shown in FIG. 10, removal of the sterile wrap (1002) will reveal the printed instructions (1001). Where the printed instructions (1001) are configured as described in FIG. 20, with the patient portion (1202) disposed adjacent to the CSR wrap (1000), the health care services provider will see the health care services portion (1201) first.

At step 2102, the health care services provider accesses the printed instructions (1001) and begins to read the panels, which in one embodiment are panels configured in accordance with those described in FIGS. 14-19 above.

At step 2103, the health care services provider unfolds the outer CSR wrap (1000), which in one embodiment is then used to create a sterile field about the tray (100). At step 2104, the health care services provider prepares the workspace, which in one embodiment may be in accordance with steps (1501,1502,1503,1504) of panel (1301) in FIG. 15. For example, this may include donning non-sterile gloves, as shown at step (1501) of FIG. 15. This may further include picking up the underbuttocks drape, included with the tray (100), by the edge without contaminating the contents and placing the shiny side down under the area of the patient to be prepped as shown at step (1503) of FIG. 15. This may further include obtaining a package of hand sanitizer from the tray and applying or otherwise using the hand sanitizer as shown at step (1504) of FIG. 15.

At step 2105, the health care services provider prepares the catheter, which in one embodiment may be in accordance with steps (1506,1507,1508,1509) of panel (1301) as described in FIG. 15. For example, this can include obtaining a package of sterile gloves from the tray and donning the sterile gloves as shown at step (1506) of FIG. 15. This may include obtaining a fenestrated drape from the tray or catheter package assembly and placing the fenestrated drape, included with the tray (100), with the shiny side down on the patient without contaminating the sterile gloves, as shown at step (1507) of FIG. 15.

This may also include filling a test balloon of the catheter assembly with water from a first syringe obtained from a first compartment of the tray as shown at step (1508) of FIG. 15, and injecting lubricating jelly from a second syringe, obtained from the first compartment, into the first compartment of the tray (100) as shown at step (1509) of FIG. 15. When lubricating jelly is inserted into the first compartment, the health care services provider can pass at least a portion of the catheter assembly through an opening in the first barrier separating the second compartment from the first compartment, thereby causing the portion of the catheter assembly to pass through the lubricating jelly. Other steps can be performed as well. For example, as shown at step (1601) of FIG. 16, the health care services provider can obtain one or more swabsticks from the tray and may cleanse the patients with the one or more swabsticks prior to insertion of the catheter.

At step 2106, the health care services provider inserts the catheter. In one embodiment, this can be in accordance with steps (1601,1602,1603,1604) of panel (1302) as described in FIG. 16. At step 2107, the health care provider secures the drain bag to the catheter assembly, which can be in accordance with steps (1605,1606,1607) described with respect to FIG. 16.

At step 2108, the health care services provider detaches the patient portion (1202) of the printed instructions (1001) from the health care services portion (1201). In one embodiment, this occurs by tearing the patient portion (1202) from the health care services portion (1201) along the perforation (1203), thereby transforming the printed instructions (1001) or instruction manual from a singular or unitary object into a two-piece object consisting of the patient portion (1202) and the health care services portion (1201). As described, above, the health care services provider may then discuss the patient portion (1202) with the patient and further give the patient portion (1202) to the patient to take home after the procedure.

Turning now to FIGS. 31, 32, and 33, illustrated therein is one embodiment of a method of using the packaged catheter assembly 2901 of FIG. 29. At FIG. 31, a health care services provider 3101 opens the outer bag 2902 that is disposed about the tray 100 and removes the bag 2902 to reveal the packaged catheter assembly 2901 therein. The 25 health care services provider 3101 can then access the instruction manual 1001 that is disposed atop the packaged catheter assembly 2901 in this illustrative embodiment.

The health care services provider 3101 can then unfold the one or more layers of wrap material 2200. Where an 30 additional layer of wrap material 2701 is included, this unfolding step reveals and makes accessible the additional layer of wrap material 2701. Note that portions of the additional layer of wrap material 2701 may be visible, as shown in FIG. 29, prior to the steps of unfolding.

As noted above, in one embodiment the one or more layers of wrap material 2200 can be unfolded to form a sterile field. Turning now to FIG. 32, illustrated therein is a step of the method that utilizes this sterile field. Specifically, in FIG. 32 the health care services provider 3101 places the one or more layers of wrap material 2200 beneath the patient 3201, thereby transforming the area beneath the patient from a non-sterile field to a sterile field. Said differently, by placing the patient 3201 atop the one or more layers of wrap material 2200, the patient is effectively moved from a location that may have not been a sterile field to the sterile field atop the one or more layers of wrap material 2200.

Turning now to FIG. 33, illustrated therein is a step of the method that may be used when an additional layer of wrap material 2701 is included with the packaged catheter assembly 2901. In FIG. 33, the health care services provider 3101 is placing the additional layer of wrap material 2701 atop the patient 3201. Note that in the illustrative embodiment of FIG. 33, the additional layer of wrap material 2701 is fenestrated, in that it includes a perforated opening 3301 suitable for performing a catheterization procedure.

In the foregoing specification, specific embodiments of the present invention have been described. However, one of ordinary skill in the art appreciates that various modifications and changes can be made without departing from the scope of the present invention as set forth in the claims below. Thus, while preferred embodiments of the invention have been illustrated and described, it is clear that the invention is not so limited. Numerous modifications, changes, variations, substitutions, and equivalents will occur to those skilled in the art without departing from the spirit and scope of the present invention as defined by the following claims. Accordingly, the specification and figures are to be regarded in an illustrative rather than a restrictive sense,

and all such modifications are intended to be included within the scope of present invention. The benefits, advantages, solutions to problems, and any element(s) that may cause any benefit, advantage, or solution to occur or become more

pronounced are not to be construed as a critical, required, or essential features or elements of any or all the claims.

What is claimed is:

1. A medical procedure kit, comprising:

a single layer tray having a first compartment for receiving syringes and a second compartment for receiving a medical assembly;

a first syringe and a second syringe disposed within the first compartment; and

the medical assembly disposed in the second compartment, wherein the medical assembly comprises a coiled tubing coupled between a fluid drain bag and a Foley catheter;

wherein one of the first syringe or the second syringe contains lubricating jelly and another of the first syringe or the second syringe contains water; and

wherein the first compartment and the second compartment are adjacent and separated by a barrier.

The medical procedure kit of claim 1, further comprising an outer packaging disposed about the single layer tray.

 The medical procedure kit of claim 2, the first compartment defining a lubricating jelly application compartment.

4. The medical procedure kit of claim 3, the lubricating jelly application compartment configured to receive lubricating jelly from the one of the first syringe or the second syringe to lubricate at least some of the Foley catheter when the Foley catheter is passed into the first compartment.

The medical procedure kit of claim 1, wherein the water is sterile.

The medical procedure kit of claim 5, further comprising a specimen jar disposed within the single layer tray.

7. The medical procedure kit of claim 1, wherein the first compartment is bounded by a first base member and the second compartment is bounded by a second base member.

8. The medical procedure kit of claim 7, wherein a portion of the first base member and another portion of the second base member are substantially coplanar.

9. The medical procedure kit of claim 1, further comprising printed instructions instructing application of lubricating jelly to the Foley catheter using the first compartment.

10. The medical procedure kit of claim 1, further comprising:

an outer packaging disposed about the single layer tray, a Foley catheter securement device disposed within the single layer tray; and

one or more swabsticks disposed within the single layer

11. The medical procedure kit of claim 10, further comprising:

an underbuttocks drape disposed within the outer packaging; and

a fenestrated drape disposed within the outer packaging.

12. The medical procedure kit of claim 1, further comprising gloves, hand sanitizer, and a diagram of contents of the medical procedure kit.

13. The medical procedure kit of claim 1, further comprising:

a Foley catheter securement device;

one or more swabsticks;

a specimen jar; and

an outer packaging disposed about the single layer tray.

14. A medical procedure kit, comprising:

a single layer tray having a first compartment for receiving syringes and a second compartment for receiving a medical assembly;

22

23

- a first syringe and a second syringe disposed within the first compartment; and
- the medical assembly disposed in the second compartment, wherein the medical assembly comprises a coiled tubing coupled between a fluid drain bag and a Foley catheter;

wherein:

- one of the first syringe or the second syringe contains lubricating jelly and another of the first syringe or the second syringe contains water;
- the first compartment and the second compartment are adjacent and separated by a barrier;
- the first syringe and the second syringe are ordered within the single layer tray in accordance with their use during a catheterization procedure; and
- the first compartment supports the first syringe and the second syringe at different heights.
- 15. The medical procedure kit of claim 14, further comprising:
 - an outer packaging disposed about the single layer tray; a Foley catheter securement device disposed within the 20 single layer tray; and
 - one or more swabsticks disposed within the single layer tray.
- 16. The medical procedure kit of claim 15, further comprising:
 - an underbuttocks drape disposed within the outer packaging; and
 - a fenestrated drape disposed within the outer packaging.

 17. A medical procedure kit, comprising:
 - a surface defining a single layer tray having a first compartment, adjacent to and separated by a barrier

24

- from, a second compartment configured for receiving a Foley catheter, a coiled tubing, and a fluid drain bag;
- a first syringe and a second syringe disposed within the first compartment, the first syringe containing lubricating jelly and the second syringe containing water, wherein the first syringe and the second syringe are arranged at different heights within the first compartment in accordance with their use during a Foley catheterization procedure; and
- the Foley catheter, the coiled tubing, and the fluid drain bag situated in the second compartment with the coiled tubing positioned between the Foley catheter and the fluid drain bag.
- 18. The medical procedure kit of claim 17, further com-15 prising:
 - one or more swabsticks disposed within the single layer tray:
 - Foley catheter securement device disposed within the single layer tray; and
 - a specimen jar disposed within the single layer tray.
 - 19. The medical procedure kit of claim 18, further comprising one or more layers of wrap material enclosing the single layer tray within one or more folds of the one or more layers of wrap material and an outer packaging disposed about the one or more folds of the one or more layers of wrap material.
 - The medical procedure kit of claim 19, the first compartment defining a lubricating jelly application compartment.

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